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ENVIRONMENTAL DATA AVAILABLE

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OIL SHALE PROJECT OFFICE
GRAND JUNCTION, COLORADO

1974 - 1984

Division of Land Management
Bldg. 30, Grand Junction Office
Grand Junction, CO 81505

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One of the responsibilities of the Oil Shale Project Office was to store and manage environmental data collected on the Prototype Oil Shale Lease Tracts by the Lessees.

The objective of this report is to allow potential users the ability to determine if environmental data is available and in what format it resides in storage.

The data is subdivided into five main monitoring activities:

1. Air Quality and Meteorology
2. Terrestrial
3. Aquatic
4. Hydrology
5. Special Studies

A few maps are included with the data to show some of the monitoring sites.

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one of the responsibilities of the U.S. Forest Service is to provide
accurate environmental data which will help the Forest Service in
the management of the land.

The objective of this report is to provide a summary of the data
collected in the study and to provide a summary of the results
of the study.

The data is subdivided into the following categories:

1. Air Quality and Temperature
2. Precipitation
3. Acoustic
4. Biological
5. Special Studies

The data was included with the data for other parts of the study.

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Table 1
Outline of Monitoring Activities with Data on the Computer

- I. AIR QUALITY and METEOROLOGY
 - A. Air Quality
 - B. Meteorology
 - C. High Volume Particulate
 - D. Precipitation
 - E. Radar

- II. TERRESTRIAL
 - A. Abiotic
 - 1. Soils
 - B. Biotic
 - 1. Vegetation
 - a. Phytosociological studies
 - b. Range productivity and utilization
 - c. Browse condition and utilization
 - 2. Fauna
 - a. Small mammal studies
 - b. Avifauna studies
 - c. Mule deer density
 - d. Mule deer road kill study
 - e. Bird

- III. AQUATIC
 - A. Abiotic
 - 1. Physical measurements
 - 2. Water quality measurements
 - B. Biotic
 - 1. Periphyton
 - 2. Benthos

- IV. HYDROLOGY
 - A. Surface Water Monitoring
 - 1. Surface flows and discharges
 - 2. Springs and seeps
 - 3. Impoundments/mine sumps/sediment and runoff control ponds
 - 4. Water quality
 - 5. Erosion and sedimentation
 - B. Ground Water Monitoring
 - 1. Bedrock wells
 - 2. Alluvial wells
 - 3. Hydrologic testing
 - 4. Water quality
 - C. Shaft

- V. SPECIAL STUDIES

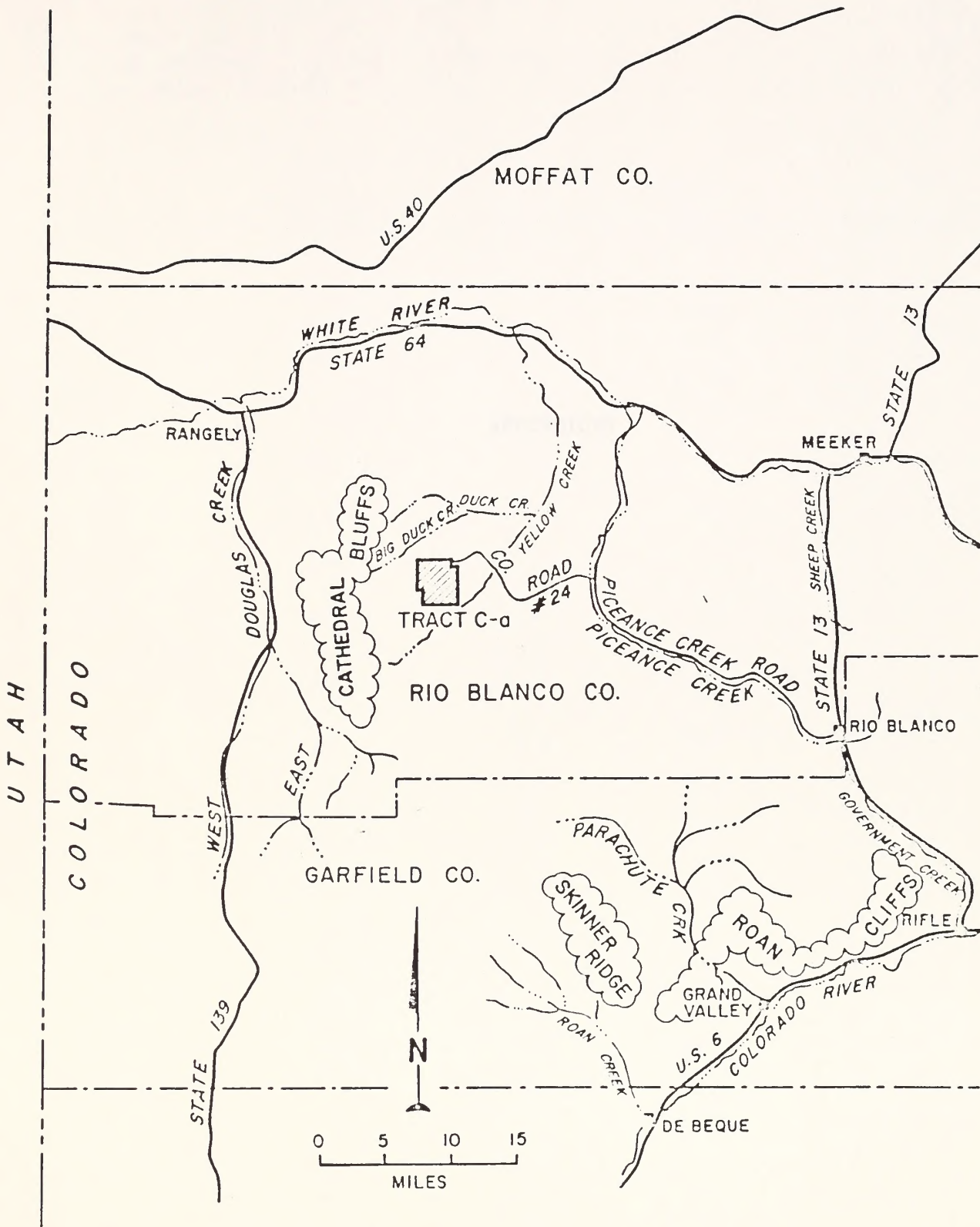


Figure 7-2-2
 LOCATION MAP OF TRACT C-a

Project: EPA
 Title: (faint text)
 Date: (faint text)

Doc #	Initial Date	Final Date	Page #	Notes
1001	10/15	11/15	1-10	Initial report
1002	11/15	12/15	1-15	Revised report
1003	12/15	1/15	1-20	Final report
1004	1/15	2/15	1-25	Appendix A
1005	2/15	3/15	1-30	Appendix B
1006	3/15	4/15	1-35	Appendix C
1007	4/15	5/15	1-40	Appendix D
1008	5/15	6/15	1-45	Appendix E
1009	6/15	7/15	1-50	Appendix F
1010	7/15	8/15	1-55	Appendix G
1011	8/15	9/15	1-60	Appendix H
1012	9/15	10/15	1-65	Appendix I
1013	10/15	11/15	1-70	Appendix J
1014	11/15	12/15	1-75	Appendix K
1015	12/15	1/15	1-80	Appendix L
1016	1/15	2/15	1-85	Appendix M
1017	2/15	3/15	1-90	Appendix N
1018	3/15	4/15	1-95	Appendix O
1019	4/15	5/15	1-100	Appendix P
1020	5/15	6/15	1-105	Appendix Q
1021	6/15	7/15	1-110	Appendix R
1022	7/15	8/15	1-115	Appendix S
1023	8/15	9/15	1-120	Appendix T
1024	9/15	10/15	1-125	Appendix U
1025	10/15	11/15	1-130	Appendix V
1026	11/15	12/15	1-135	Appendix W
1027	12/15	1/15	1-140	Appendix X
1028	1/15	2/15	1-145	Appendix Y
1029	2/15	3/15	1-150	Appendix Z
1030	3/15	4/15	1-155	Appendix AA
1031	4/15	5/15	1-160	Appendix AB
1032	5/15	6/15	1-165	Appendix AC
1033	6/15	7/15	1-170	Appendix AD
1034	7/15	8/15	1-175	Appendix AE
1035	8/15	9/15	1-180	Appendix AF
1036	9/15	10/15	1-185	Appendix AG
1037	10/15	11/15	1-190	Appendix AH
1038	11/15	12/15	1-195	Appendix AI
1039	12/15	1/15	1-200	Appendix AJ
1040	1/15	2/15	1-205	Appendix AK
1041	2/15	3/15	1-210	Appendix AL
1042	3/15	4/15	1-215	Appendix AM
1043	4/15	5/15	1-220	Appendix AN
1044	5/15	6/15	1-225	Appendix AO
1045	6/15	7/15	1-230	Appendix AP
1046	7/15	8/15	1-235	Appendix AQ
1047	8/15	9/15	1-240	Appendix AR
1048	9/15	10/15	1-245	Appendix AS
1049	10/15	11/15	1-250	Appendix AT
1050	11/15	12/15	1-255	Appendix AU
1051	12/15	1/15	1-260	Appendix AV
1052	1/15	2/15	1-265	Appendix AW
1053	2/15	3/15	1-270	Appendix AX
1054	3/15	4/15	1-275	Appendix AY
1055	4/15	5/15	1-280	Appendix AZ
1056	5/15	6/15	1-285	Appendix BA
1057	6/15	7/15	1-290	Appendix BB
1058	7/15	8/15	1-295	Appendix BC
1059	8/15	9/15	1-300	Appendix BD
1060	9/15	10/15	1-305	Appendix BE
1061	10/15	11/15	1-310	Appendix BF
1062	11/15	12/15	1-315	Appendix BG
1063	12/15	1/15	1-320	Appendix BH
1064	1/15	2/15	1-325	Appendix BI
1065	2/15	3/15	1-330	Appendix BJ
1066	3/15	4/15	1-335	Appendix BK
1067	4/15	5/15	1-340	Appendix BL
1068	5/15	6/15	1-345	Appendix BM
1069	6/15	7/15	1-350	Appendix BN
1070	7/15	8/15	1-355	Appendix BO
1071	8/15	9/15	1-360	Appendix BP
1072	9/15	10/15	1-365	Appendix BQ
1073	10/15	11/15	1-370	Appendix BR
1074	11/15	12/15	1-375	Appendix BS
1075	12/15	1/15	1-380	Appendix BT
1076	1/15	2/15	1-385	Appendix BU
1077	2/15	3/15	1-390	Appendix BV
1078	3/15	4/15	1-395	Appendix BW
1079	4/15	5/15	1-400	Appendix BX
1080	5/15	6/15	1-405	Appendix BY
1081	6/15	7/15	1-410	Appendix BZ
1082	7/15	8/15	1-415	Appendix CA
1083	8/15	9/15	1-420	Appendix CB
1084	9/15	10/15	1-425	Appendix CC
1085	10/15	11/15	1-430	Appendix CD
1086	11/15	12/15	1-435	Appendix CE
1087	12/15	1/15	1-440	Appendix CF
1088	1/15	2/15	1-445	Appendix CG
1089	2/15	3/15	1-450	Appendix CH
1090	3/15	4/15	1-455	Appendix CI
1091	4/15	5/15	1-460	Appendix CJ
1092	5/15	6/15	1-465	Appendix CK
1093	6/15	7/15	1-470	Appendix CL
1094	7/15	8/15	1-475	Appendix CM
1095	8/15	9/15	1-480	Appendix CN
1096	9/15	10/15	1-485	Appendix CO
1097	10/15	11/15	1-490	Appendix CP
1098	11/15	12/15	1-495	Appendix CQ
1099	12/15	1/15	1-500	Appendix CR
1100	1/15	2/15	1-505	Appendix CS
1101	2/15	3/15	1-510	Appendix CT
1102	3/15	4/15	1-515	Appendix CU
1103	4/15	5/15	1-520	Appendix CV
1104	5/15	6/15	1-525	Appendix CW
1105	6/15	7/15	1-530	Appendix CX
1106	7/15	8/15	1-535	Appendix CY
1107	8/15	9/15	1-540	Appendix CZ
1108	9/15	10/15	1-545	Appendix DA
1109	10/15	11/15	1-550	Appendix DB
1110	11/15	12/15	1-555	Appendix DC
1111	12/15	1/15	1-560	Appendix DD
1112	1/15	2/15	1-565	Appendix DE
1113	2/15	3/15	1-570	Appendix DF
1114	3/15	4/15	1-575	Appendix DG
1115	4/15	5/15	1-580	Appendix DH
1116	5/15	6/15	1-585	Appendix DI
1117	6/15	7/15	1-590	Appendix DJ
1118	7/15	8/15	1-595	Appendix DK
1119	8/15	9/15	1-600	Appendix DL
1120	9/15	10/15	1-605	Appendix DM
1121	10/15	11/15	1-610	Appendix DN
1122	11/15	12/15	1-615	Appendix DO
1123	12/15	1/15	1-620	Appendix DP
1124	1/15	2/15	1-625	Appendix DQ
1125	2/15	3/15	1-630	Appendix DR
1126	3/15	4/15	1-635	Appendix DS
1127	4/15	5/15	1-640	Appendix DT
1128	5/15	6/15	1-645	Appendix DU
1129	6/15	7/15	1-650	Appendix DV
1130	7/15	8/15	1-655	Appendix DW
1131	8/15	9/15	1-660	Appendix DX
1132	9/15	10/15	1-665	Appendix DY
1133	10/15	11/15	1-670	Appendix DZ
1134	11/15	12/15	1-675	Appendix EA
1135	12/15	1/15	1-680	Appendix EB
1136	1/15	2/15	1-685	Appendix EC
1137	2/15	3/15	1-690	Appendix ED
1138	3/15	4/15	1-695	Appendix EE
1139	4/15	5/15	1-700	Appendix EF
1140	5/15	6/15	1-705	Appendix EG
1141	6/15	7/15	1-710	Appendix EH
1142	7/15	8/15	1-715	Appendix EI
1143	8/15	9/15	1-720	Appendix EJ
1144	9/15	10/15	1-725	Appendix EK
1145	10/15	11/15	1-730	Appendix EL
1146	11/15	12/15	1-735	Appendix EM
1147	12/15	1/15	1-740	Appendix EN
1148	1/15	2/15	1-745	Appendix EO
1149	2/15	3/15	1-750	Appendix EP
1150	3/15	4/15	1-755	Appendix EQ
1151	4/15	5/15	1-760	Appendix ER
1152	5/15	6/15	1-765	Appendix ES
1153	6/15	7/15	1-770	Appendix ET
1154	7/15	8/15	1-775	Appendix EU
1155	8/15	9/15	1-780	Appendix EV
1156	9/15	10/15	1-785	Appendix EW
1157	10/15	11/15	1-790	Appendix EX
1158	11/15	12/15	1-795	Appendix EY
1159	12/15	1/15	1-800	Appendix EZ
1160	1/15	2/15	1-805	Appendix FA
1161	2/15	3/15	1-810	Appendix FB
1162	3/15	4/15	1-815	Appendix FC
1163	4/15	5/15	1-820	Appendix FD
1164	5/15	6/15	1-825	Appendix FE
1165	6/15	7/15	1-830	Appendix FF
1166	7/15	8/15	1-835	Appendix FG
1167	8/15	9/15	1-840	Appendix FH
1168	9/15	10/15	1-845	Appendix FI
1169	10/15	11/15	1-850	Appendix FJ
1170	11/15	12/15	1-855	Appendix FK
1171	12/15	1/15	1-860	Appendix FL
1172	1/15	2/15	1-865	Appendix FM
1173	2/15	3/15	1-870	Appendix FN
1174	3/15	4/15	1-875	Appendix FO
1175	4/15	5/15	1-880	Appendix FP
1176	5/15	6/15	1-885	Appendix FQ
1177	6/15	7/15	1-890	Appendix FR
1178	7/15	8/15	1-895	Appendix FS
1179	8/15	9/15	1-900	Appendix FT
1180	9/15	10/15	1-905	Appendix FU
1181	10/15	11/15	1-910	Appendix FV
1182	11/15	12/15	1-915	Appendix FW
1183	12/15	1/15	1-920	Appendix FX
1184	1/15	2/15	1-925	Appendix FY
1185	2/15	3/15	1-930	Appendix FZ
1186	3/15	4/15	1-935	Appendix GA
1187	4/15	5/15	1-940	Appendix GB
1188	5/15	6/15	1-945	Appendix GC
1189	6/15	7/15	1-950	Appendix GD
1190	7/15	8/15	1-955	Appendix GE
1191	8/15	9/15	1-960	Appendix GF
1192	9/15	10/15	1-965	Appendix GG
1193	10/15	11/15	1-970	Appendix GH
1194	11/15	12/15	1-975	Appendix GI
1195	12/15	1/15	1-980	Appendix GJ
1196	1/15	2/15	1-985	Appendix GK
1197	2/15	3/15	1-990	Appendix GL
1198	3/15	4/15	1-995	Appendix GM
1199	4/15	5/15	1-1000	Appendix GN
1200	5/15	6/15	1-1005	Appendix GO

APPENDICES

Table 2.I

Tract: C-a
 Monitoring Activity: Air Quality and Meteorology
 Inventory Date: 5/19/81

OSO File Name	Initial Date (mo/yr)	Final Date (mo/yr)	Page No.	Data Description
aqmb1	02/75	5/31/76	I-1-4	These four OSO files contain all baseline Air Quality & Meteorology data collected on Tract C-a
aqmb12	--	--	I-1-4	
aqmb13	--	1/31/77	I-1-4	
dv9171	06/79	11/79	I-18	Hi-Volume Particulate
dv9172	06/79	11/79	I-18	Hi-Volume Particulate
prc123	12/79	05/80	I-15	Precipitation-Sites, 1,2
hiv79	12/79	05/80	I-19	Hi-Volume Particulate
prc780	09/77	11/80	I-14	Precipitation-Sites 1,2
prt780	08/77	11/80	I-16	Hi_Vol Particulate
prtbl	03/75	11/76	I-16	Hi_Vol Particulate (Baseline)
prcbl	02/75	11/76	I-12	Precipitation-Sites 1,2
prc801	06/80	11/80	I-13	Prec Site 1
prc802	06/80	11/80	I-13	Prec Site 2
prc803	06/80	11/80	I-13	Prec Site 3
prt80	06/80	11/80	I-20	Hi_Vol Particulate
aqmt80	06/80	11/80	I-9	Air Qual. & Met.
arnt13	06/78	11/78	I-8	Air Qual. & Met.
sar3	12/77	05/78	I-7	Air Qual. & Met.
nuso2	09/77	11/77	I-6	Air Qual. & Met.
nusol	2/01/77	08/77	I-5	Air Qual. & Met.
prc81	12/80	12/81	I-14	Precipitation
J4A-1	12/80	05/81	I-11	Air Qual. & Met.
J4B-1	06/80	05/81	I-11	Air Qual. & Met.
part81	12/80	12/81	I-16	Particulate
j26_17	1977	1983	I-17	Meteorology Site
j26_18			I-21	Air Quality Site
j16.32	01/82	06/82	I-22	Air
j16.34	07/82	12/82	I-22	Air
j16.33	01/82	06/82	I-23	Met
j16.35	07/82	12/82	I-23	Met
j48_4	1984		I-24	Air
j48_6	1984		I-25	Met

Table 2.II

Tract: C-a
 Monitoring Activity: Terrestrial
 Inventory Date: 5/19/81

OSO File Name	Initial Date (mo/yr)	Final Date (mo/yr)	Page No.	Data Description
sch380			II-21,22	Soil Chemistry
phy79	06/79	06/79	II-23	Phytosociological
phy80	06/80	06/80	II-24	Phytosociological
rnpr	09/78	09/78	II-17	Range Productivity
rprd	09/79	09/79	II-18	Range Productivity
rprd80	09/80	10/80	II-19	Range Productivity
br78	05/78	05/78	II-13	Browse
br79	05/79	05/79	II-13	Browse
brsp80	04/80	05/80	II-15	Browse
br7677	12/76	05/77	II-12	Browse
br80	04/80	05/80	II--14	Browse Utilization
mm79	06/79	06/79	II-9	Small Mammals
smam80	06/80	06/80	II-11	Small Mammals
avi79	06/79	06/79	II-7	Avifauna
avi80	06/80	06/80	II-	Avifauna
smpd78	05/78	05/78	II-2	Mule Deer Pellet Ct.
fmpd78	09/78	09/78	II-1	Mule Deer Pellet Ct.
ml79	05/79	09/79	II-3	Mule Deer Pellet Ct.
mlsp80	05/80	05/80	II-4	Mule Deer Pellet Ct.
fm80	09/80	09/80	II-5	Mule Deer
sfmd81	Spring	Fall/81	II-6	Mule Deer PelletCt.
avi81	03/81		II-8	Avifauna
sm81	06/81		II-10	Small Mammals
br81	04/81	05/81	II-15	Browse
rbr81	06/81	--	II-16	Browse
ran81	8/26/81	9/10/81	II-20	Range Productivity
derk81	01/79	12/81	II-26	Deer Kill
rcoa81	06/81	--	II-27	Range Cover
rbia81	06/81	--	II-27	Range Bio
rcob81	06/81	--	II-28	Range Cover
rbib81	06/81	--	II-28	Range Bio
rccd81	06/81	--	II-28	Range Cover
rbcd81	06/81	--	II-28	Range Bio
pht81	06/81	--	II-25	
site location			II-(a-g)	lat-lon
j48_16	1984		II-30	Mule Deer Habitat
j16.27	1978-1982		II-31	Deer Pellet Count
j16.19	1979-1982		II-32	Phytosociological
j16.18	1977-1982		II-33	Browse Cond. & Util.
j26_9	1978-1983		II-34	Mule Deer Pellet Ct.

Table 2.III

Tract: C-a
 Monitoring Activity: Aquatic
 Inventory Date: 5/19/81

OSO File Name	Initial Date (mo/yr)	Final Date (mo/yr)	Page No.	Data Description
gmcd79	04/79	10/79	III-11	White River Chemical
gmpr79				Periphyton Species
gppd79	04/79	10/79	III-10	Periphyton
gpbd79	04/79	10/79	III-9	Periphyton Biomass
per80a	04/80	04/80	III-8	Periphyton
per80m	05/80	05/80	III-8	Periphyton
gmbs79				Benthos Species List
bena80	04/80	04/80	III-6	Benthos
benm80	05/80	05/80	III-6	Benthos
gbd79	04/79	10/79	III-4	Benthos
aqbn80	04/80	10/80	III-5	Benthos
aqpr80	04/80	10/80	III-3	Periphyton
aqch80	04/80	08/80	III-2	AQU. Chem
aqc280	04/80	08/80	III-2	AQU. Chem
aqph80	04/80	10/80	III-1	AQU. Physical
aprbio	04/80	10/80	III-7	Periphyton Biomass
aqch81	04/81		III-12,13	Aqu.chem
aqc281	04/81		III-12,13	Aqu.chem
aqph81	04/81		III-14	Aqu.Physical
per81	04/81		III-15	periphyton
ben81	04/81		II-16	Benthos
j16.14	1982		III-17	Water Chem
j16.16	1982		III-18	Benthos
j26_8	1979-1983		III-19	Aquatic-Benthic Macroinvert
j26_7	1974-1982		III-20-22	Aquatic Stream Physical
j16.17	1982		III-23	Aqua Periphyton
per180				periphyton list
ben180				benthos list
j16.15	1982		III-24	physical

Table 2.IV

Tract: C-a
 Monitoring Activity: Hydrology
 Inventory Date: 5/19/81

OSO File Name	Initial Date (mo/yr)	Final Date (mo/yr)	Page No.	Data Description
stream	02/78	11/78	IV-10	Stream
seep	10/77	09/78	IV-9	Seeps
usgs	06/76	04/79	IV-8	Water Qual.Instant-aneous
usgscn	06/76	05/78	IV-7	Water Qual.Continuos
erod1	06/78	11/78	IV-6	Erosion
erod28	12/78	05/79	IV-5	Erosion
ldep	04/77	11/78	IV-4	Deep Wells Water Levels
lalu	10/77	11/78	IV-1	Alluvial Wells Water Levels
pmpda	005/78	11/78	IV-2	Hydrologic Testing Pumping
pmp28	01/79	05/79	IV-3	Hydrologic Testing Pumping
w82	01/82	12/82	IV-11	
alwq81	03/75	11/80	IV-22	water Quality
upwq81	03/75	11/80	IV-22	water Quality
unwq81	03/75	11/80	IV-22	water Quality
alph81	00/79	00/80	IV-13	
upph81	00/75	00/80	IV-13	
lph81	00/75	00/76	IV-13	
unph81	1980	2 months	IV-13	
feld81	1981		IV-14	Field Hydro
dmph81	1980 only		IV-15	
seep81	10/77	05/80	IV-16	Seeps & Springs
usgs81	03/74		IV-17	
erod81			IV-18	
dams81	1979	1981	IV-19	
usgm81	09/74	09/79	IV-20	
uswq81	08/74	10/80	IV-21	
d2wq81	08/79	10/80	IV-12	
spwq81	08/80	10/80	IV-12	
j26_1	1983		IV-14	Field Hydro
lwq81	03/75	11/80	IV-22	
ch81	1980		IV-30-32	Water Chem
j48_17	1984		IV-14	Field Hydro
j48_14	1984		IV-14	Field Hydro
j26_5	1983		IV-25	Retort Water
j48_13	1984		IV-25	Retort Water
j26_3	1983		IV-27-29	Water Chemistry
j26_4	1983		IV-27-29	Water Chemistry
j26_6	1983		IV-27-29	Water Chemistry
j16_13	1982		IV-27-29	Water Chemistry

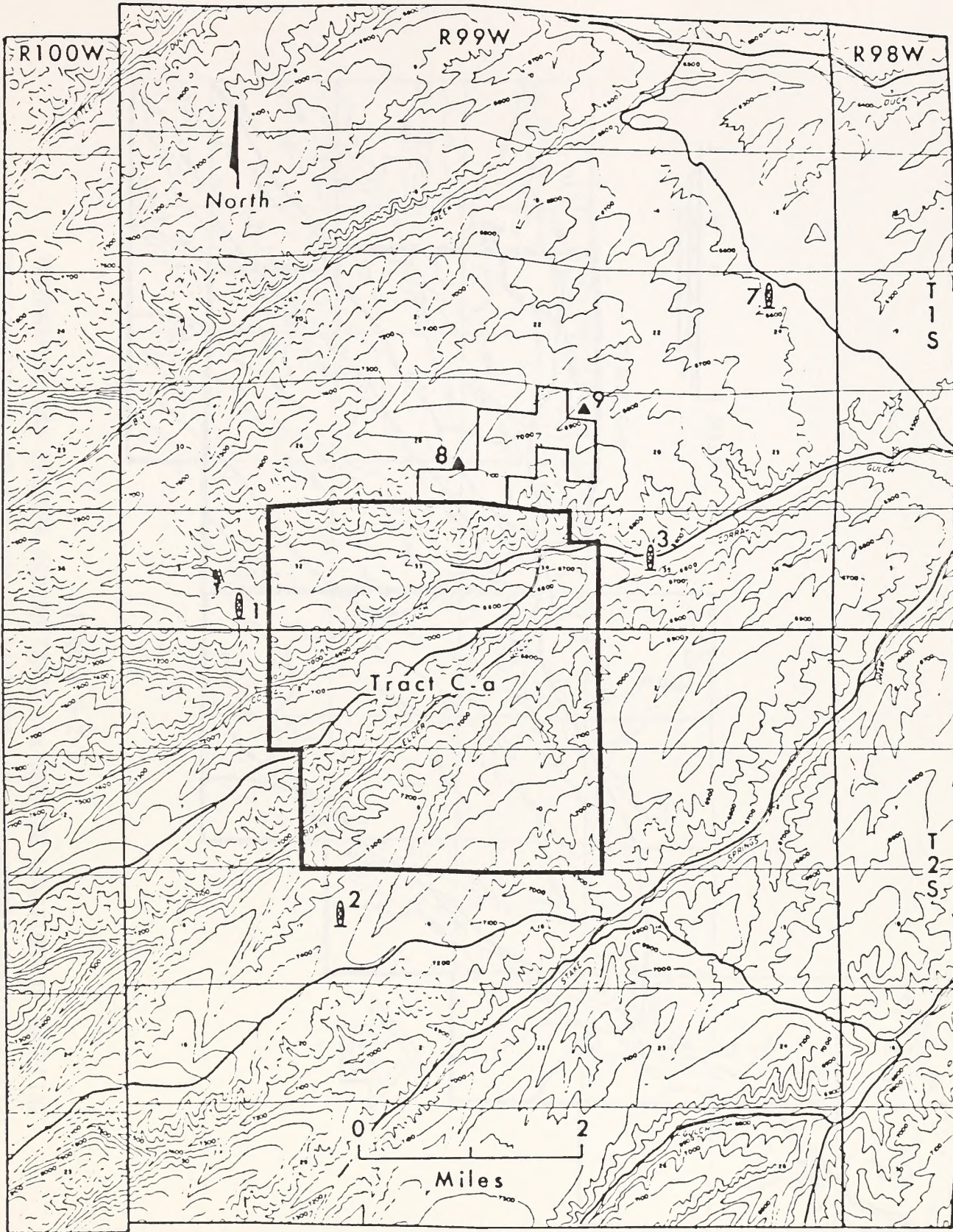
Table 2.IV Cont.

j49_1	1984	IV-27-29	Water Chemistry
j49_2	1984	IV-27-29	Water Chemistry
j16_1	1982	IV-26	
j48_9	1984	IV-33	USGS Water Q
j48_8	1984	IV-34	USGS Water Chemistry
j26_2	1983	IV-19	Oper. Data

Table 2.V

Tract: C-a
 Monitoring Acitvity: SPECIAL STUDIES
 Inventory Date: 5/19/81

OSO File Name	Initial Date (mo/yr)	Final Date (mo/yr)	Page No.	Data Description
g76778	06/76	09/78	V-2	Revegetation
✓ rvg79	08/79	08/79	V-3	Revegetation
✓ rvg379	08/79	08/79	V-5	Revegetation
rvgl80	08/80	08/80	V-4	Revegetation
rvg280	08/80		V-4	Revegetation
rclm81	08/81		V-7	Reclamation
✓ rvg81	07/81		V-1	Revegetation
rvg380	08/80		V-4	Revegetation
✓ shb381	10/81		V-6	Shrubs
✓ vg8081	/80	/81	V-8	Revegetation
✓ j26_10	1976	1983	V-9	Cover R1
✓ j26_11	1976	1983	V-9	Cover R2
✓ j26_12	1976	1983	V-10	Cover R3
j26_13			V-11	soil-moisture
j26_14			V-12	bench-test-moist.
✓ j26_15			V-13	soil-moisture
✓ j26_16			V-14	bench-test-moist.
✓ j16.28			V-15	R3 conductivity
✓ j16.29			V-16	reveg R3 plant
✓ j16.31	1982		V-17	reclam success
✓ j16.26	1979	1982	V-18	biomass R2
✓ j16.20	1978	1981	V-19	range prod.
✓ j16.30	1982		V-20	habitat mod
✓ j16.22	1978	1981	V-21	reveg biomass R1 &
✓ j16.24	1978	1981	V-21	R2
✓ rvg80	1980		V-27	revegetation
✓ j48_10	1984		V-24	R3 soil noist.
✓ j48_5	1984		V-26	bench test
✓ j48_7	1984		V-25	bench test
✓ j48_15	1984		V-22	R1 cover
✓ j48_12	1984		V-22	R2 cover
✓ j48_11	1984		V-23	R3 cover





-  Meteorological & Air Quality Monitoring Sites
-  Hi-Vol Monitoring Sites

Figure 2-1
Meteorological & Air Quality Monitoring Sites

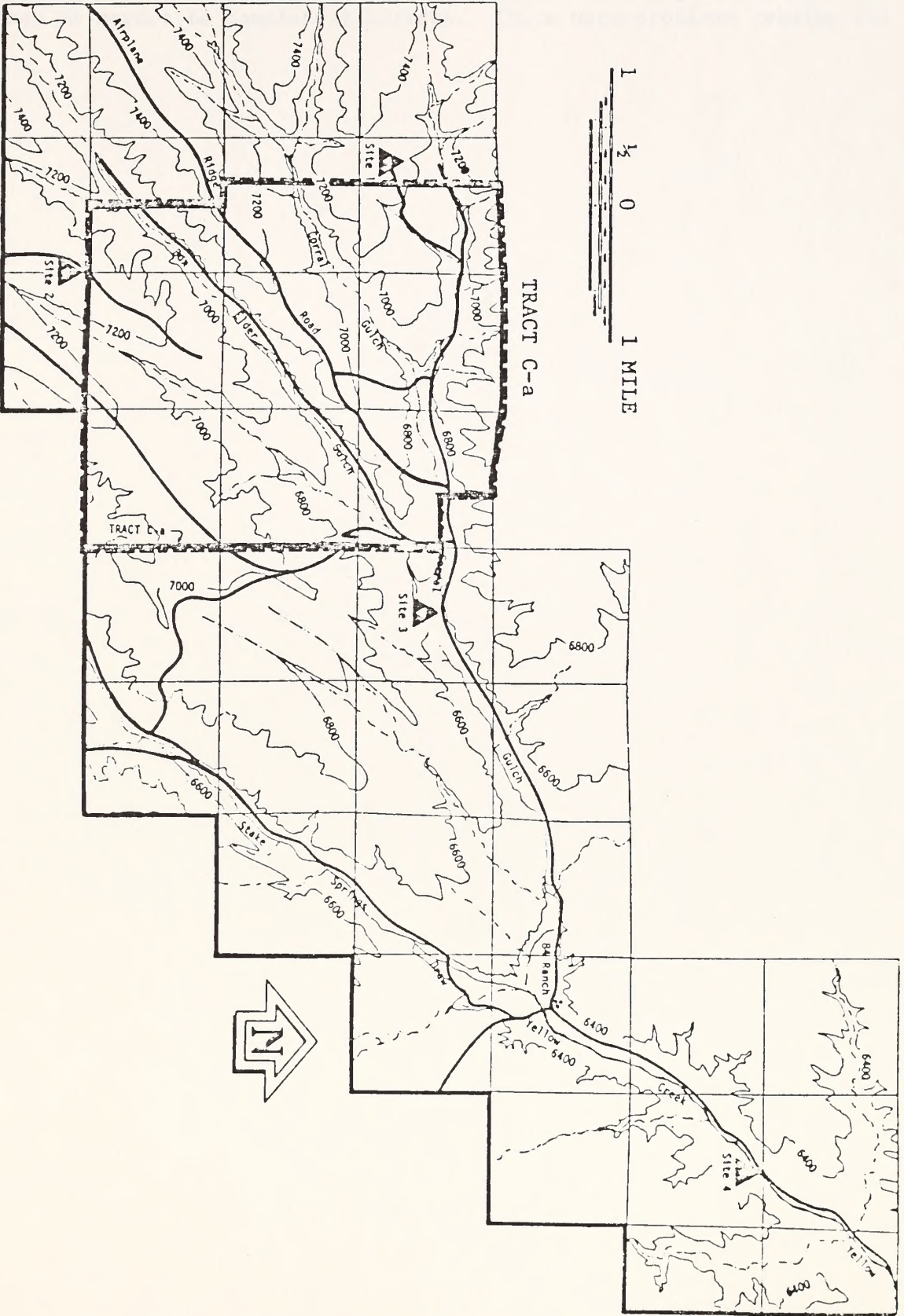


Figure 8-2-1

TOPOGRAPHIC MAP OF AREA AROUND TRACT C-a SHOWING LOCATIONS OF BASELINE METEOROLOGICAL AND AIR QUALITY STATIONS AND RECOMMENDED MONITORING SITE

The following C-a formats, pages 1-11, are from the last tape received. The format may or maynot be completely correct. There were problems reading the files.

Ca Format

Tract: C-a
 Monitoring Activity:Water
 Format:J60_L2
 Period Covered:1981-1986

PARAMETER	COL	FORMAT	UNITS
TYPE	1	A4	
STAT	5	A10	
DATE	15	A6	
WLELEV	24	F6.1	
FLOW	30	I6	
ALK	36	I4	
TEMP	40	F3.1	
pH	43	F3.1	
SP_COND	46	I5	
NH3	51	F3.1	
F	54	F3.1	
S	57	I3	
K	60	I5	
PHE	65	F3.1	
COD	68	I3	
WLDEPTH	71	F5.1	

Ca Format

Tract: C-a
 Monitoring Activity: Water Chem
 Format: J60_11
 Period Covered: 1981-1986

Parameter	Col	Format	Units
DATE	63	A8	
STATION	21	A25	
TEMP	21	F6.1	
ph	33	F6.1	
SPC_COND	45	F6.1	
Ca	21	F6.1	
Mg	35	F6.0	
Na	49	F6.0	
K	63	F6.2	
HCO3	21	F6.2	
CO3	35	F6.2	
OH	49	F6.2	
SO4	63	F6.0	
Cl	21	F6.2	
TSS	49	F6.0	
TCN	56	F6.2	
TSD4	63	F6.2	
TDS	21	F6.0	
ALK	35	F6.0	
HARD	56	F6.0	
ORTHOP	63	F6.2	
PO4	21	F6.2	
KJEL	28	F6.1	
NH3	35	F6.2	
NO2	42	F6.3	
NO3	49	F6.3	
F	56	F6.2	
S	63	F6.1	
SO3	69	F6.0	
BR	21	F6.1	
TOC	28	F6.0	
DOC	35	F6.0	
CN	70	F6.3	
PHE	21	F6.2	
OG	28	F6.0	
BOD	35	F6.0	
COD	42	F6.0	

PARAMETER	COL	FORMAT	UNITS
AL	21	F6.1	
SB	27	F6.2	
AS	33	F6.2	
Ba	39	F6.1	
Be	45	F6.2	
Bi	51	F6.2	
B	57	F6.2	
Cd	63	F6.1	
Cr	69	F6.2	
Cu	21	F6.3	
Fe	27	F6.2	
Ga	33	F6.1	
Ge	39	F6.1	
PB	45	F6.3	
Li	51	F6.2	
Mn	57	F6.2	
Hg	63	F6.2	
MOL	69	F6.1	
NI	75	F6.2	
SE	21	F6.2	
SI02	27	F6.0	
Ag	33	F6.1	
Sr	39	F6.2	
Sn	45	F6.2	
Ti	51	F6.1	
W	57	F6.2	
V	63	F6.1	
Zn	69	F6.2	
Zr	75	F6.0	
ALPHA	33	F6.0	
BETA	45	F6.0	

Ca Formats

Tract: C-a
 Monitoring Activity: USGS Field Water Chem
 Format: j60_10
 Period Covered: 1981 - 1986

Parameter	Col.	Format	Units
stat	1	A3	
date	8	I6	
Qm	14	F6.2	
Thi	20	F6.1	
Tlow	26	F6.1	
Tm	32	F6.1	
Chi	38	F6.1	
Clow	44	F6.1	
Cm	50	F6.1	
Ssm	56	F6.2	
Slm	62	F6.2	

Ca Formats

Tract: C-a
 Monitoring Activity: USGS Field Water Quality
 Format: j60_9
 Period Covered: 1981 - 1986

Parameter	Col.	Format	Units
stat	1	A3	
date	8	I6	
flow	14	F6.2	
turb 70	20	F6.2	
turb 76	26	F6.2	
color	32	I6	
Sp_cond	38	I6	
DO	44	I6	
BOD	50	I6	
COD	56	I6	
Ph	60	I6	
CO ₂	68	I6	
Alk	74	I6	

Parameter	Col.	Format	Units
HC03	1	I6	
C03	7	I6	
Oi1550	13	I6	
Oi1556	19	I6	
N_TOT	25	I6	
N_DIS	31	I6	
TORG_N	37	I6	
ORG_N	43	I6	
NH3_N	49	I6	
TNH3_N	55	I6	
NO2_DIS	61	I6	
NO3_DIS	67	I6	
KJEL623	73	I6	
CC2	80	I6	

Parameter	Col.	Format	Units
KJEL625	1	I6	
TN02N03	7	I6	
NO2N03	13	I6	
TP04	19	I6	
O_P04	25	I6	
TOT_P	31	I6	
DIS_P	37	I6	
DORTHOP	43	I6	
TOC	49	I6	
DOC	55	I6	
SUSP_OC	61	I6	
CYANIDE	67	I6	
THS	73	I6	
CC3	80	I1	

Parameter	Col.	Format	Units
HS	1	I6	
T_Hard	7	I6	
NC_Hard	13	I6	
Ca	19	I6	
Ma	25	I6	
Na	31	I6	
SAR	37	I6	
Per_Na	43	I6	
Na_K	49	I6	
K	55	I6	
Cl	61	I6	
SO4	67	I6	
F	73	I6	
CC4	80	I1	

Parameter	Col.	Format	Units
SI04	1	I6	
As	7	I6	
Ba	13	I6	
Be	19	I6	
Bi	25	I6	
B	31	I6	
CD	37	I6	
Cr	43	I6	
Cu	49	I6	
Fe	55	I6	
Pb	61	I6	
Mn	67	I6	
Mol	73	I6	
CC5	80	I1	

Parameter	Col.	Format	Units
Ni	1	I6	
Ag	7	I6	
V	13	I6	
Zn	19	I6	
Sn	25	I6	
Al	31	I6	
Ga	37	I6	
Ge	43	I6	
Li	49	I6	
Se	55	I6	
Ti	61	I6	
Zr	67	I6	
Odor	73	I6	
CC6	80	I1	

Parameter	Col.	Format	Units
T_COLI	1	I6	
F_COLI	7	I6	
Phenol	13	I6	
PCB	19	I6	
TDS	25	I6	
TDS2	31	I6	

Parameter	Col.	Format	Units
TDS3	37	I6	
NH3	43	I6	
NO3	49	I6	
NO2	55	I6	
Br	61	I6	
Hg	67	I6	
Sr	73	I6	
CC7	80	I1	

Parameter	Col.	Format	Units
date	1	MM	
time	2	II	
wind	3	II	
slope	4	II	
row	10	A1	
row	11	A1	
row	12	F5.1	
row	13	F5.1	
row	14	F5.1	

Ca Formats

Tract: C-a
Monitoring Activity: Soil Moisture
Format: j60_8
Period Covered: 1986

Parameter	Col.	Format	Units
date	1	A6	
fence	7	I1	
soil	8	I1	
slope	9	I1	
row	10	A1	
num	11	A1	
top	16	F5.1	
mid	21	F5.1	
lot	26	F5.1	

Ca Formats

Tract: C-a

Monitoring Activity: Bench Test Plant Height & Dia.

Format: j60_7

Period Covered: 1986

Parameter	Col.	Format	Units
date	1	A6	
fence	7	I1	
soil	8	I1	
slope	9	I1	
row	10	A1	
plt_no	11	I2	
species	13	A6	
gr_form	19	A1	
status	20	A1	
ph	21	I4	
pd	25	I5	

Ca Formats

Tract: C-a
Monitoring Activity: R3 Soil Moisture Study
Format: j60_6
Period Covered: 1986

Parameter	Col.	Format	Units
site	1	A2	
plot	4	I2	
subs	7	I1	
seed	8	I1	
mulch	9	I1	
date	11	I6	
top	20	F5.1	
mid	25	F5.1	
bot	30	F5.1	

Ca Formats

Tract: C-a
Monitoring Activity: Exp. Reveg Site R3
Format: j60_5
Period Covered: 1986

Parameter	Col.	Format	Units
plot	5	I2	
substrate	7	I1	
seeding	8	I1	
mulch	9	I1	
date	11	I6	
species	20	A6	
gr_form	26	A1	
sps_type	27	A1	
cover 1	28	I3	
cover 2	34	I3	
cover 3	40	I3	

Ca Formats

Tract: C-a
 Monitoring Activity: Exp. Reveg Site R1 & R2
 Format: j60_3, j60_4
 Period Covered: 1986 1986

Parameter	Col.	Format	Units
site	2	I1	
block	4	I1	
plot	5	I2	
mulch	9	I1	
fertilizer	10	II	
date	11	I6	
species	20	A6	
gr_form	26	A1	
cover 1	28	I3	
cover 2	34	I3	
cover 3	40	I3	
cover 4	46	I3	

Ca Formats

Tract: C-a
 Monitoring Activity: Met
 Format: j60_1
 Period Covered: 1986

Parameter	Col.	Format	Units
yr	1	I2	
MN	3	I2	
DY	5	I2	
HR	7	I2	
WSI-10m	10	F5.1	
WDI-10m	16	I3	
WDS1-10m	20	I3	
WS2-60m	25	F5.1	
WD2-60m	31	I3	
WDS2-60m	35	I3	
T10	40	F5.1	
T60	46	F5.1	
DT	52	F5.1	
SR	58	F6.2	
PCP	65	F5.2	

Ca Formats

Tract: C-a
 Monitoring Activity: Water
 Format: j60_2
 Period Covered: 1981 - 1986

Location	Length	Format	Notes
100	1	100	
101	1	100	
102	1	100	
103	1	100	
104	1	100	
105	1	100	
106	1	100	
107	1	100	
108	1	100	
109	1	100	
110	1	100	
111	1	100	
112	1	100	
113	1	100	
114	1	100	
115	1	100	
116	1	100	
117	1	100	
118	1	100	
119	1	100	
120	1	100	
121	1	100	
122	1	100	
123	1	100	
124	1	100	
125	1	100	
126	1	100	
127	1	100	
128	1	100	
129	1	100	
130	1	100	
131	1	100	
132	1	100	
133	1	100	
134	1	100	
135	1	100	
136	1	100	
137	1	100	
138	1	100	
139	1	100	
140	1	100	
141	1	100	
142	1	100	
143	1	100	
144	1	100	
145	1	100	
146	1	100	
147	1	100	
148	1	100	
149	1	100	
150	1	100	

Continued on next page

Ca_md Formats

Tract: C-a

Monitoring Activity: AIR QUALITY and METEOROLOGY

Formats: aqmb1, aqmb12, aqmb13

Period Covered: 02/01/75 - 01/31/77

Parameter	Length	Format	Units
Record 1			
space	1	lx	na
mo	2	i2	-
da	2	i2	-
yr	2	i2	-
space	1	lx	na
hr	2	i2	-
space	1	lx	na
latitude	8	f8.4	degrees
space	1	lx	na
longitude	8	f8.4	degrees
space	1	lx	na
wssl10 (wind speed)	6	f6.2	mph
space	1	lx	na
wds (wind direction)	6	f6.2	degrees
space	1	lx	na
atsl10 (air temperature)	6	f6.2	degrees.celsius
space	1	lx	na
rhs110 (relative humidity)	6	f6.2	percent
space	1	lx	na
wssl30	6	f6.2	mph
space	1	lx	na
wds130	6	f6.2	degrees
space	1	lx	na
ats	6	f6.2	degrees.celsius
space	1	lx	na
wssl60	6	f6.2	mph
space	1	lx	na
wds	6	f6.2	degrees
space	1	lx	na
dtsl60 (delta temp.)	6	f6.2	na
space	1	lx	na
prcs102 (precipitation)	6	f6.2	inches.of.water
space	1	lx	na
sis102 (solar insolation)	6	f6.2	langleys
space	1	lx	na
S02s103	6	f6.3	ppm
space	1	lx	na
H2S103	6	f6.3	ppm
space	1	lx	na
THCs103 (Total Hydrocbns)	6	f6.3	ppm
space	1	lx	na

Continued on next page

Ca_md Formats

Tract: C-a

Monitoring Activity: AIR QUALITY and METEOROLOGY

Formats: aqmb1, aqmb12, aqmb13

(continued from previous page)

Period Covered: 02/01/75 - 01/31/77

Parameter	Length	Format	Units
CH4s103	6	f6.3	ppm
space	1	lx	na
NOxs103	6	f6.3	ppm
space	1	lx	na
NOs103	6	f6.3	ppm
space	1	lx	na
COs103	6	f6.3	ppm
space	1	lx	na
O3s103	6	f6.3	ppm

110 - site 1 - 10 meters

130 - site 1 - 30 meters

160 - site 1 - 60 meters

102 - site 1 - 2 meters

103 - site 1 - 3 meters

Ca_md Formats

Tract: C-a
 Monitoring Activity: AIR QUALITY and METEOROLOGY
 Formats: aqmb1, aqmb12, aqmb13
 Period Covered: 02/01/75 - 01/31/77

Parameter	Length	Format	Units
Record 2			
space	1	1x	na
mo	2	i2	-
da	2	i2	-
yr	2	i2	-
space	1	1x	na
hr	2	i2	-
space	1	1x	na
latitude	8	f8.4	degrees
space	1	1x	na
longitude	8	f8.4	na
space	1	1x	na
wss210	6	f6.2	mph
space	1	1x	na
wds	6	f6.2	degrees
space	1	1x	na
ats210	6	f6.2	degrees.celsius
space	1	1x	na
prcs203	6	f6.2	inches.of.water
space	1	1x	na
S02s203	6	f6.3	ppm
space	1	1x	na
H2Ss203	6	f6.3	ppm
space	1	1x	na
THCs203	6	f6.3	ppm
space	1	1x	na
CH4s203	6	f6.3	ppm

210 - site 2 - 10 meters

203 - site 2 - 3 meters

Ca-md Formats

Tract: C-a
 Monitoring Activity: AIR QUALITY and METEOROLOGY
 Formats: aqmb1, aqmb12, aqmb13
 Period Covered: 02/01/75 - 01/31/77

Parameter	Length	Format	Units
Record 3			
space	1	lx	na
mo	2	i2	-
da	2	i2	-
yr	2	i2	-
space	1	lx	na
hr	2	i2	-
space	1	lx	na
latitude	8	f8.4	degrees
space	1	lx	na
longitude	8	f8.4	degrees
space	1	lx	na
wss310	6	f6.2	mph
space	1	lx	na
wds310	6	f6.2	degrees
space	1	lx	na
ats310	6	f6.2	degrees.celsius
space	1	lx	na
prcs302	6	f6.2	inches.of.water
space	1	lx	na
S02s303	6	f6.3	ppm
space	1	lx	na
H2Ss303	6	f6.3	ppm
space	1	lx	na
THCs303	6	f6.3	ppm
space	1	lx	na
CH4s303	6	f6.3	ppm
space	1	lx	na
N0xs303	6	f6.3	ppm
space	1	lx	na
N0s303	6	f6.3	ppm
space	1	lx	na
C0s303	6	f6.3	ppm
space	1	lx	na
03s303	6	f6.3	ppm

310 - site 3 - 10 meters
 302 - site 3 - 2 meters
 303 - site 3 - 3 meters

Ca_md Formats

Tract: C-a

Monitoring Activity: AIR QUALITY and METEOROLOGY

Formats: aqmb1, aqmb12, aqmb13

Period Covered: 02/01/75 - 01/31/77

Parameter	Length	Format	Units
Record 4			
space	1	1x	na
mo	2	i2	-
da	2	i2	-
yr	2	i2	-
space	1	1x	na
hr	2	i2	-
space	1	1x	na
latitude	8	f8.4	degrees
space	1	1x	na
longitude	8	f8.4	degrees
space	1	1x	na
wss410	6	f6.2	mph
space	1	1x	na
wds410	6	f6.2	degrees
space	1	1x	na
ats410	6	f6.2	degrees.celsius
space	1	1x	na
prcs402	6	f6.2	inches.of.water
space	1	1x	-
S02s403	6	f6.3	ppm
space	1	1x	-
H2Ss403	6	f6.3	ppm
space	1	1x	-
THCs403	6	f6.3	ppm
space	1	1x	-
CH4s403	6	f6.3	ppm

410 - site 4 - 10 meters

402 - site 4 - 2 meters

403 - site 4 - 3 meters

Ca_md Formats

Tract: C-a

Monitoring Activity: AIR QUALITY and METEOROLOGY

Format: nusol

Period Covered: 02/01/77 - 08/31/77

Parameter	Length	Format	Units
date	6	3a2	mmdyy
space	1	lx	na
hour	2	i2	hh
sulfur.dioxide	8	f8.2	ppm
total.hydro-carbons	8	f8.2	ppm
nitric.oxide	8	f8.3	ppm
carbon.monoxide	8	f8.1	ppm
hydrogen.sulfide	8	f8.2	ppm
methane	8	f8.2	ppm
nitrogen.oxides	8	f8.3	ppm
ozone.tower.1	8	f8.3	ppm
10.meter.wind.speed	7	f7.1	mph
10.meter.wind.direction	5	i5	degrees
30.meter.wind.speed	7	f7.1	mph
30.meter.wind.direction	5	i5	degrees
60.meter.wind.speed	7	f7.1	mph
60.meter.wind.direction	5	i5	degrees
10.meter.temperature	7	f7.1	centigrade
30.meter.temperature	7	f7.2	centigrade
60.meter.temperature	7	f7.1	centigrade
relative.humidity	6	i6	percent
delta.t(60-10)	7	f7.1	centigrade
precipitation	7	f7.2	inches
solar.radiation	7	f7.2	langleys/minute

* Missing data is coded as 999's.

Site 1.

Ca_md Formats

Tract: C-a
 Monitoring Activity: AIR QUALITY and METEOROLOGY
 Format: nuso2
 Period Covered: 9/01/77 - 11/30/77

Parameter	Length	Format	Units
date	6	3a2	mmddy
space	1	1x	na
hour	2	a2	hh
sulfur.dioxide	8	f8.2	ppm
total.hydro.carbons	8	f8.2	ppm
nitric.oxide	8	f8.3	ppm
carbon.monoxide	8	f8.1	ppm
hydrogen.sulfide	8	f8.2	ppm
methane	8	f8.2	ppm
nitrogen.oxides	8	f8.3	ppm
ozone.tower.1	8	f8.3	ppm
ozone.tower.3	8	f8.3	ppm
10.meter.wind.speed	8	f7.1	mph
10.meter.wind.direction	5	i5	degrees
30.meter.wind.speed	7	f7.1	mph
30.meter.wind.direction	5	i5	degrees
69.meter.wind.speed	7	f7.1	mph
60.meter.wind.direction	5	i5	degrees
10.meter.temperature	8	f7.1	centigrade
30.meter.temperature	8	f7.1	centigrade
60.meter.temperature	8	f7.1	centigrade
relative.humidity	7	i6	percent
delta.t	7	f7.1	centigrade
precipitation	7	f7.2	inches
solar.radiation	7	f7.2	langleys/minute
wind.speed.site.2	7	f7.1	mph
wind.direction.site.1	5	i6	degrees
wind.speed.site.3	7	f7.1	mph
wind.direction.site.3	5	i6	degrees
temperature.tower.2(10.meter)	7	f7.1	centigrade
temperature.tower.3(10.meter)	7	f7.1	centigrade

* Data are taken at two locations at the site. Site 1.
 Missing data is coded as 999's

Ca_md Formats

Tract: C-a

Monitoring Activity: AIR QUALITY and METEOROLOGY

Format: sar3

Period Covered: 12/1/77 - 05/31/78

Parameter	Length	Format	Units
date	6	3a2	mmdyy
space	1	lx	na
hour	2	a2	hh
sulfur.dioxide.site.1	7	f7.2	ppm
total.hydro.carbons.site.1	7	f7.2	ppm
nitrogen.oxides.site.1	7	f7.3	ppm
carbon.monoxide.site.1	7	f7.1	ppm
hydrogen.sulfide.site.1	7	f7.2	ppm
methane.site.1	7	f7.2	ppm
nitric.oxide.site.1	7	f7.3	ppm
ozone.site.1	7	f7.3	ppm
sulfur.dioxide.site.3	7	f7.2	ppm
hydrogen.sulfide.site.3	7	f7.2	ppm
ozone.site.3	7	f7.3	ppm
10.meter.wind.speed.tower.1	6	f6.1	mph
10.meter.wind.direction.tower.1	4	14	degrees
60.meter.wind.speed.tower.1	6	f6.1	mph
60.meter.wind.direction.tower.1	4	14	degrees
10.meter.temperature.tower.1	6	f6.1	centigrade
60.meter.temperature.tower.1	6	f6.1	centigrade
delta.t(60-10).tower.1	6	f6.1	centigrade
relative.humidity	4	14	percent
precipitation	6	f6.2	inches
solar.radiation	6	f6.2	langleys/minute
10.meter.wind.speed.tower.2	6	f6.1	mph
10.meter.wind.direction.tower.2	4	14	degrees
ambient.temperature.tower.2	6	f6.1	centigrade
precipitation.tower.2	6	f6.2	inches
10.meter.wind.speed.tower.3	6	f6.1	mph
10.meter.wind.direction.tower.3	4	14	degrees
ambient.temperature.tower.3	6	f6.1	centigrade
precipitation.tower.3	6	f6.2	inches

* 99.9 or field length less one for no value given or recorded.

Ca_md Formats

Tract: C-a
 Monitoring Activity: AIR QUALITY and METEOROLOGY
 Format: armt13
 Period Covered: 6/01/78 - 11/30/78

Parameter	Length	Format	Units
date	6	3a2	mmdyy
space	1	lx	na
hour	2	a2	hh
sulfur.dioxide.site.1	7	f7.2	ppm
nitrogen.oxides.site.1	7	f7.3	ppm
carbon.monoxide.site.1	7	f7.1	ppm
hydrogen.sulfide.site.1	7	f7.3	ppm
nitric.oxide.site.1	7	f7.3	ppm
ozone.site.1	7	f7.3	ppm
sulfur.dioxide.site.3	7	f7.2	ppm
hydrogen.sulfide.site.3	7	f7.2	ppm
ozone.site.3	7	f7.3	ppm
10.meter.wind.speed.tower.1	6	f6.1	mph
10.meter.wind.direction.tower.1	4	i4	degrees
60.meter.wind.speed.tower.1	6	f6.1	mph
60.meter.wind.direction.tower.1	4	i4	degrees
10.meter.temperature.tower.1	6	f6.1	centigrade
60.meter.temperature.tower.1	6	f6.1	centigrade
delta.t(60-10)	6	f6.2	centigrade
dew.point	6	f6.2	centigrade
solar.radiation.tower.1	6	f6.2	langleys/minute
10.meter.wind.speed.tower.2	6	f6.1	mph
10.meter.wind.direction.tower.2	4	i4	degrees
10.meter.amb.temperature	6	f6.1	centigrade
10.meter.wind.speed.tower.3	6	f6.1	mph
10.meter.wind.direction.tower.3	4	i4	degrees
10.meter.amb.temperature.tower.3	6	f6.1	centigrade
unknown	7	f7.2	-
unknown	7	f7.2	-

Data recorded in Vol. 2, Year-end Report, Dec77-Nov78
 No data designated by 99.99 or one less than size designated.

Ca_md Formats

Tract: C-a
 Monitoring Activity: AIR QUALITY and METEOROLOGY
 Format: aqmt80
 Period Covered: 6/80 - 11/80

Parameter	Length	Format	Units
Record 1 for Site 1			
space	1	1x	na
date.sampled	6	a6	mmddy
space	1	1x	na
hour.sampled	2	a2	-
latitude	9	f9.4	degrees.latitude
longitude	9	f9.4	degrees.longitude
space	1	1x	na
sulfur.dioxide	5	f5.3	ppm
nitrogen.oxides	6	f6.3	ppm
carbon.monoxide	6	f6.1	ppm
hydrogen-sulfide	6	f6.3	ppm
nitric oxide	6	f6.3	ppm
ozone	6	f6.3	ppm
wind.speed(10.meter)	5	f5.1	mph
space	1	1x	na
wind.direction(10.meter)	3	i3	degrees
wind.speed(60.meter)	5	f5.1	mph
space	1	1x	na
wind.direction	3	i3	degrees
temperature(10.meter)	5	f5.1	degrees.c
temperature(60.meter)	5	f5.1	degrees.c
temperature.differential(60-10)	5	f5.1	degrees.c
dew.point	5	f5.1	degrees.c
solar.radiation	5	f5.2	langleys/minute

Record 2 for Site 2

space	1	1x	na
date.sampled	6	a6	mmddy
space	1	1x	na
hour.sampled	2	a2	-
latitude	9	f9.4	degrees.latitude
longitude	9	f9.4	degrees.longitude
space	1	1x	na
wind.speed(10.meter)	5	f5.1	mph
space	1	1x	na
wind.direction(10.meter)	4	i4	degrees
space	1	1x	na
temperature(10.meter)	6	f6.1	degrees.c

Continued on next page

Ca_md Formats

Tract: C-a

Monitoring Activity: AIR QUALITY and METEOROLOGY

Format: aqmt80 (continued from previous page)

Period Covered: 6/80 - 11/80

Parameter	Length	Format	Units
Record 3 for Site 3			
space	1	lx	na
date.sampled	6	a6	mmddy
space	1	lx	na
hour.sampled	2	a2	-
latitude	9	f9.4	degrees.latitude
longitude	9	f9.4	degrees.longitude
space	1	lx	na
sulfur.dioxide	6	f6.3	ppm
hydrogen.sulfide	6	f6.3	ppm
ozone	6	f6.3	ppm
nitrogen.oxides	6	f6.3	ppm
nitric.oxide	6	f6.3	ppm
carbon.monoxide	6	f6.1	ppm
wind.speed(10.meter)	5	f5.1	mph
space	1	lx	na
wind.direction(10.meter)	3	i3	degrees
temperature(10.meter)	5	f5.1	degrees.c

Repeat record 1,2,3 until all the file has been read
Missing data are coded as 999's.

Ca_md Format

Tract: C-a

Monitoring Activity: AIR QUALITY and METEOROLOGY

Format: j4A-1, j4B-1

Period Covered: 12/80 - 5/81

6/81 - 12/81

Parameter	Length	Format	Units
space	1	lx	na
date	6	3i2	yymmdd
space	1	lx	na
hour	2	i2	hr
sulfur.dioxide(s1)	7	f7.3	ppm
nitrogen.oxides(s1)	7	f7.3	ppm
carbon.monoxide(s1)	7	f7.1	ppm
hydrogen.sulfide(s1)	8	f7.3	ppm
nitric.oxide(s1)	8	f7.3	ppm
sulfur.dioxide(s3)	8	f7.3	ppm
hydrogen.sulfide(s3)	8	f7.3	ppm
ozone(s3)	8	f7.3	ppm
nitrogen.oxides(s3)	8	f7.3	ppm
nitric.oxide(s3)	8	f7.3	ppm
ozone(s1)	8	f7.3	ppm
carbon.monoxide(s3)	7	f7.1	ppm
wind.speed(t1-10m)	6	f6.1	mph
wind.direction(t1-10m)	4	i4	deg
wind.speed(t1-60m)	6	f6.1	mph
wind.direction(t1-60m)	4	i4	deg
temp(10m)	6	f6.1	deg.C
temp(60m)	6	f6.1	deg.C
delta.T(60-10)	6	f6.1	deg.C
dew.point	6	f6.1	deg.C
solar.radiation	6	f6.2	langleys.min
wind.speed(t2-10m)	6	f6.1	mph
wind.direction	4	i4	deg
ambient.temp(t1-10m)	6	f6.1	deg.C
wind.speed(t3-10m)	6	f6.1	mph
wind.direction(t3-10m)	4	i4	deg
ambient.temp(t3-10m)	6	f6.1	deg.C

Ca_md Format

Tract: C-a
 Monitoring Activity: PRECIPITATION DATA
 Format: precbl
 Period Covered: 02/02/75 - 11/26/76

Parameter	Length	Format	Units
space	1	lx	na
date	8	a8	mmddy
space	1	lx	na
site-1	5	a5	inches.of.water
space	1	lx	na
site-1(weighing.gage)	5	a5	inches.of.water
space	1	lx	na
site-2	5	a5	inches.of.water
space	1	lx	na
site-2(weighing.gage)	5	a5	inches.of.water
space	1	lx	na
site-3	5	a5	inches.of.water
space	1	lx	na
site-4	5	a5	inches.of.water

When sites 1 & 2 have a weighing gage value the first value is by tipping bucket otherwise method is not stated.

Ca_md Formats

Tract: C-a

Monitoring Activity: AIR QUALITY and METEOROLOGY

Format: prc801

prc802

prc803

Period Covered: 06/80 - 11/80

Parameter	Length	Format	Units
Site 1			
space	1	lx	na
date	13	a13	mmddyymmddy
space	1	lx	na
weather.measure.tipping.bucket.gauge	4	f4.2	inches
space	1	lx	na
belfort.weighing.bucket.gauge	4	f4.2	inches
space	1	lx	na
wedge.gauge	4	f4.2	inches

Dates not listed had no precipitation

Belfort weighing bucket gauge not installed at site 3

Ca_md Formats

Tract: C-a
 Monitoring Activity: AIR QUALITY and METEOROLOGY
 Format: prc780, prc81
 Period Covered: 09/03/77 - 11/24/80
 12/80 - 12/81

Parameter	Length	Format	Units
space	1	lx	na
site.no	6	a6	na
space	1	lx	na
date	17	a17	mmddyy-mmddyy
space	1	lx	na
tipping.bucket.gauge	5	a5	inches
space	1	lx	na
belfort.weighing.gauge	5	a5	inches
space	1	lx	na
wedge.gauge	5	a5	inches

* After inches measured means estimate after guage was spilled.

M means missing data

T means trace only

Missing data is 99.9 in 80-81 file
 100.0 or rounded up

Ca_md Formats

Tract: C-a

Monitoring Activity: AIR QUALITY and METEOROLOGY

Format: prcl23

Period Covered: 12/79 - 5/80

Parameter	Length	Format	Units
space	1	1x	na
station	5	a5	-
space	2	2x	na
start.date	6	a6	mmddy
space	2	2x	na
end.date	6	a6	mmddy
space	2	2x	na
tipping.bucket.gauge	5	F5.2	inches
space	2	2x	na
belfort.weighing.gauge	5	F5.2	inches
space	2	2x	na
wedge.gauge	5	F5.2	inches

Ca_md Formats

Tract: C-a
 Monitoring Activity: Air Quality and Meteorology
 Format: prt780, prt81, partbl
 Period Covered: 9/77 - 11/80
 12/80 - 12/81
 3/75 - 11/76

Parameter	Length	Format	Units
space	1	lx	na
date	8	a8	mmddy
space	1	lx	na
s1	9	f9.1	micrograms.cubic.meter
sle	9	f9.1	micrograms.cubic.meter
s2	9	f9.1	micrograms.cubic.meter
s3	9	f9.1	micrograms.cubic.meter
s3c	9	f9.1	micrograms.cubic.meter
s4	9	f9.1	micrograms.cubic.meter
s6	9	f9.1	micrograms.cubic.meter

Missing data is coded 99.9

C-a Formats

Tract: C-a

Monitoring Activity: Meteorological Data Site 1 (10,60 M Tower)

Format: j26_17

Period Cover: 1977 - 1983

Parameter	Col.	Format	Units
yr	1	I2	
mo	3	I2	
da	5	I2	
hr	7	I2	
WS10	10	F5.1	mph
WD10	16	I3	degrees
SD10(standard dev.)	20	I3	degrees
WS60	25	F5.1	mph
Wd60	31	I3	degrees
SD60	35	I3	degrees
T10	40	F5.1	centigrade
T60	46	F5.1	centigrade
DT (60-10)	52	F5.1	centigrade
solar radiation	58	F6.2	Langleys/min
precipitation	65	F5.2	inches
relative humidity	70	I5	%

Ca_md Formats

Tract: C-a
 Monitoring Activity: AIR QUALITY and METEOROLOGY
 Formats: dv9172
 Period Covered: 6/3/79-11/30/79

Parameter	Length	Format	Units
space	1	1x	na
date	8	a8	yr/mo/da
space	2	2x	na
site-1	4	i4	micro.grams/cubic.meter
space	2	2x	na
site_2	4	i4	micro.grams/cubic.meter
space	2	2x	na
site_3	4	i4	micro.grams/cubic.meter

STATE OF CALIFORNIA
DEPARTMENT OF REVENUE
SALES TAX REPORT

Item	Quantity	Unit Price	Total Price
1.00	1	1.00	1.00
2.00	2	2.00	4.00
3.00	3	3.00	9.00
4.00	4	4.00	16.00
5.00	5	5.00	25.00
6.00	6	6.00	36.00
7.00	7	7.00	49.00
8.00	8	8.00	64.00
9.00	9	9.00	81.00
10.00	10	10.00	100.00

Ca_md Formats

Tract: C-a

Monitoring Activity: AIR QUALITY and METEOROLOGY

Formats: hiv79

Period Covered: 12/79 - 5/80

Parameter	Length	Format	Units
space	1	1x	na
date	8	a8	yr/mo/da
space	2	2x	na
site_1	4	i4	micro.grams/cubic.meter
space	2	2x	na
site_2	4	i4	micro.grams/cubic.meter
space	2	2x	na
site_3	4	i4	micro.grams/cubic.meter

Ca_md Formats

Tract: C-a

Monitoring Activity: AIR QUALITY and METEOROLOGY

Format: part80

Period Covered: 06/03/80 - 11/30/80

Parameter	Length	Format	Units
space	1	lx	na
date	6	a6	mmddy
space	1	lx	na
site.1	3	a3	ug/m3
space	1	lx	na
site.2	3	a3	ug/m3
space	1	lx	na
site.3	3	a3	ug/m3
space	1	lx	na
site.3c	3	a3	ug/m3

Data not given designated by —

C-a Formats

Tract: C-a

Monitoring Activity: Air Quality Site 1 (6 parameters)

Format: j26_18

Period Covered:

Parameter	Col.	Format	Units
yr	1	I2	
mo	3	I2	
da	5	I2	
hr	7	I2	
SO ₂	15	F6.3	ppm
H ₂ S	25	F6.3	ppm
No	35	F6.3	ppm
NOX	45	F6.3	ppm
O ₃	55	F6.3	ppm
CO	65	F6.3	ppm

Ca_md Formats

Tract: C-a
 Monitoring Activity: Air Quality
 Format: j16.32, j16.34
 Period Covered: 1/82 - 6/82, 7/82 - 12/82

Parameters	Col.	Format	Units
date	7	3I2	yr-mo-da
hour	13	I2	1-24 hrs.
site 1 SO ₂	15	F6.3	ppm
site 1 H ₂ S	21	F6.3	ppm
site 1 NO	27	F6.3	ppm
site 1 NO _x	33	F6.3	ppm
site 1 O ₃	39	F6.3	ppm
site 1 CO	45	F6.3	ppm
site 3 SO ₂	51	F6.3	ppm
site 3 H ₂ S	57	F6.3	ppm
site 3 NO	63	F6.3	ppm
site 3 NO _x	69	F6.3	ppm
site 3 O ₃	75	F6.3	ppm
site 3 CO	81	F6.3	ppm

jkc016.34 only includes site 1 data

Ca_md Formats

Tract: C-a
 Monitoring Activity: Meteorology
 Format: j16.33, j16.35
 Period Covered: 1/82 - 6/82, 7/82 - 12/82

Parameters	Col.	Format	Units
date	7	3I2	yr-mo-da
hour	13	I2	1-24
WS11	15	F5.1	mph
WD11	20	I3	degrees
SD11	23	I3	
WS16	26	F5.1	mph
WD16	31	I3	degrees
SD16	34	I3	
T11	37	F5.1	degrees C
T16	42	F5.1	degrees C
DT	47	F5.1	degrees C
DP	52	F5.1	degrees C
SR	58	F5.2	Langleys/min
P1	63	F5.2	
WS2	68	F5.1	mph
WD2	73	I3	degrees
SD2	76	I3	
T2	79	F5.1	degrees C
P2	84	F5.2	
WS3	89	F5.1	mph
WD3	94	I3	degrees
SD3	97	I3	
T3	100	F5.1	degrees C
P3	105	F5.1	

The last 5 values are not found in jkc016.35

C-a Format

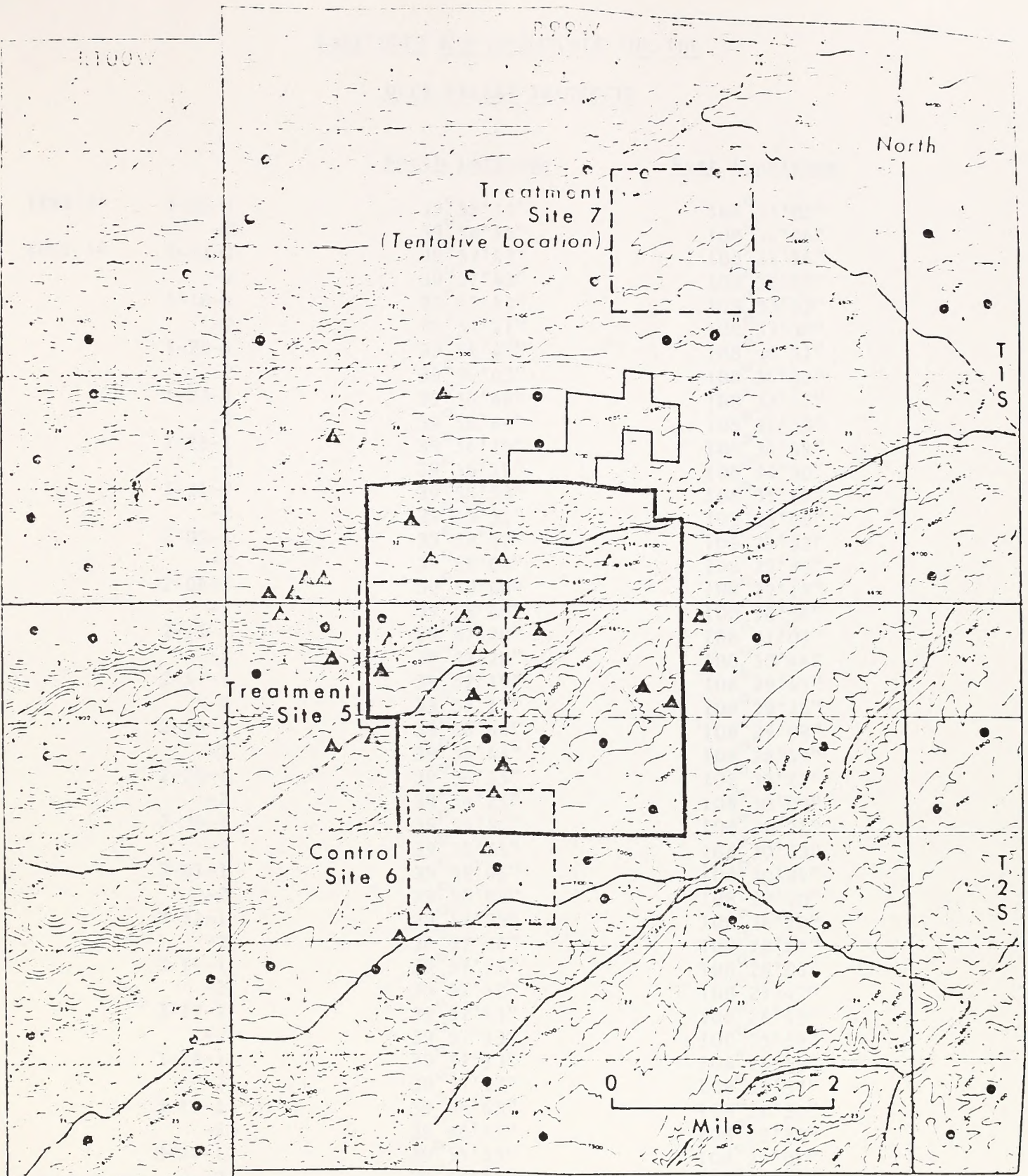
Tract: C-a
Monitoring Activity: Air Quality
Format: j48.4
Period Covered: 1984

Parameters	Col.	Format	Units
date	1	3I2	yr-mo-da
hours	7	I2	1-24 hrs.
SO2	9	F6.3	ppm
H2S	15	F6.3	ppm
NO	21	F6.3	ppm
NOX	27	F6.3	ppm
O3	33	F6.3	ppm
CO	39	F6.2	ppm

C-a Format

Tract: C-a
 Monitoring Activity: Met Data
 Format: j48_6
 Period Covered: 1984

Parameters	Col.	Format	Units
date		3I2	yr-mo-da
WS11 10m		F5.1	mph
WD11 10m		I3	degrees
SD11 10m		I3	
WS16 60m		F5.1	mph
SD16 60m		I3	degrees
T10 10m		F5.1	degrees C
T60 60m		F5.1	degrees C
DT 60-10m		F5.1	
SR solar radiation		F6.2	Langleys/m
PPT precip		F5.2	



- Mule Deer Pellet Group Sample Unit
- ▲ Range-Browse, Productivity & Utilization Study Site
- Intensive Study Sites

Figure 4-1
Terrestrial Ecology Monitoring Sites

LATITUDES AND LONGITUDES FOR THE

DEER PELLET TRANSECTS

	<u>North Latitude</u>	<u>West Longitude</u>
(EST.)* 1-05-1	39°58'15"	108°33'05"
-2	39°58'15"	108°32'46"
(EST.)* 1-11-1	39°57'43"	108°33'16"
-2	39°57'43"	108°32'57"
1-16-1	39°57'11"	108°33'53"
-2	39°57'11"	108°33'34"
1-20-1	39°56'45"	108°34'51"
-2	39°56'45"	108°34'32"
1-23-1	39°56'49"	108°33'12"
-2	39°56'49"	108°32'53"
1-26-1	39°56'19"	108°34'49"
-2	39°56'19"	108°34'30"
1-31-2	39°55'53"	108°35'19"
-2	39°55'53"	108°35'00"
2-05-1	39°58'12"	108°29'52"
-2	39°58'09"	108°29'33"
2-06-1	39°58'08"	108°29'15"
-2	39°58'08"	108°28'56"
2-15-1	39°57'20"	108°31'03"
-2	39°57'20"	108°30'44"
2-17-1	39°57'19"	108°29'45"
-2	39°57'17"	108°29'26"
2-24-1	39°56'44"	108°29'08"
-2	39°56'44"	108°28'49"
2-28-1	39°56'25"	108°30'22"
-2	39°56'25"	108°30'03"
2-34-1	39°55'56"	108°30'22"
-2	39°55'56"	108°30'03"
3-01-1	39°58'06"	108°30'39"
-2	39°58'06"	108°28'20"
3-11-1	39°57'38"	108°26'28"
-2	39°57'38"	108°26'09"
3-14-1	39°57'12"	108°28'06"
-2	39°57'12"	108°27'47"
3-17-1	39°57'13"	108°26'18"
-2	39°57'13"	108°25'59"
3-18-1	39°57'13"	108°25'56"
-2	39°57'13"	108°25'37"
3-19-1	39°56'43"	108°28'39"
-2	39°56'43"	108°28'20"
3-34-1	39°55'53"	108°27'01"
-2	39°55'53"	108°26'42"
4-01-1	39°55'27"	108°35'24"
-2	39°55'27"	108°35'05"
4-08-1	39°55'00"	108°34'57"
-2	39°55'00"	108°34'38"
4-13-1	39°54'34"	108°35'24"
-2	39°54'34"	108°35'05"
4-14-1	39°54'34"	108°34'49"
-2	39°54'34"	108°34'30"

	<u>North Latitude</u>	<u>West Longitude</u>
4-18-1	39°54'35"	108°32'31"
-2	39°54'35"	108°32'12"
4-23-1	39°54'09"	108°33'12"
-2	39°54'09"	108°32'53"
4-25-1	39°53'40"	108°35'18"
-2	39°53'40"	108°34'59"
5-08-1	39°55'01"	108°31'26"
-2	39°55'01"	108°31'07"
5-13-1	39°54'35"	108°31'59"
-2	39°54'35"	108°31'40"
5-15-1	39°54'35"	108°31'03"
-2	39°54'35"	108°30'44"
5-27-1	39°53'42"	108°30'49"
-2	39°53'42"	108°30'30"
5-28-1	39°53'42"	108°30'22"
-2	39°53'42"	108°30'03"
5-29-1	39°53'42"	108°29'44"
-2	39°53'42"	108°29'25"
5-36-1	39°53'14"	108°29'20"
-2	39°53'14"	108°29'01"
6-08-1	39°55'01"	108°28'09"
-2	39°55'01"	108°27'50"
6-11-1	39°55'01"	108°26'29"
-2	39°55'01"	108°26'10"
6-14-1	39°54'34"	108°28'17"
-2	39°54'34"	108°27'58"
6-27-1	39°53'42"	108°27'34"
-2	39°53'42"	108°27'15"
6-30-1	39°53'42"	108°25'57"
-2	39°53'42"	108°25'38"
6-32-1	39°53'15"	108°28'07"
-2	39°53'15"	108°27'48"
6-35-1	39°53'15"	108°26'23"
-2	39°53'15"	108°26'04"
7-16-1	39°51'55"	108°33'39"
-2	39°51'55"	108°33'20"
7-17-1	39°51'59"	108°33'03"
-2	39°51'59"	108°32'44"
7-19-1	39°51'29"	108°35'32"
-2	39°51'29"	108°35'13"
7-22-1	39°51'29"	108°33'49"
-2	39°51'29"	108°33'30"
7-28-1	39°51'03"	108°33'49"
-2	39°51'03"	108°33'30"
7-32-1	39°50'36"	108°35'00"
-2	39°50'36"	108°34'41"
7-34-1	39°50'36"	108°33'48"
-2	39°50'36"	108°33'29"
8-03-1	39°52'51"	108°30'53"
-2	39°52'49"	108°30'34"
8-05-1	39°52'49"	108°29'52"
-2	39°52'51"	108°29'33"

LATITUDES AND LONGITUDES FOR THE DEER PELLET TRANSECTS Continued

	<u>North Latitude</u>	<u>West Longitude</u>
8-11-1	39°52'23"	108°29'48"
-2	39°52'23"	108°29'29"
8-13-1	39°51'59"	108°31'58"
-2	39°51'59"	108°31'40"
8-14-1	39°51'59"	108°31'37"
-2	39°51'59"	108°31'18"
8-27-1	39°51'08"	108°30'58"
-2	39°51'08"	108°30'39"
8-34-1	39°50'37"	108°30'22"
-2	39°50'37"	108°30'03"
9-03-1	39°52'49"	108°27'39"
-2	39°52'49"	108°27'20"
9-07-1	39°52'23"	108°28'33"
-2	39°52'23"	108°28'14"
(EST.)* 9-09-1	39°52'23"	108°27'30"
-2	39°52'23"	108°27'11"
(EST.)* 9-15-1	39°51'59"	108°27'35"
-2	39°51'59"	108°27'16"
(EST.)* 9-21-1	39°51'34"	108°27'39"
-2	39°51'34"	108°27'20"
(EST.)* 9-30-1	39°51'08"	108°25'57"
-2	39°51'08"	108°25'38"
(EST.)* 9-35-1	39°50'37"	108°26'23"
-2	39°50'37"	108°26'04"

ESTIMATED

LATITUDES AND LONGITUDES FOR THE
SMALL ANIMAL TRANSECT

	<u>North Latitude</u>	<u>West Longitude</u>
PJ 5-A	39°54'28"	108°30'52"
5-B	39°54'28"	108°30'55"
5-C	39°54'27"	108°30'58"
S 5-A	39°54'22"	108°31'26"
5-B	39°54'21"	108°31'29"
5-C	39°54'21"	108°31'32"
PJ 6-A	39°52'54"	108°30'56"
6-B	39°52'53"	108°30'58"
6-C	39°52'51"	108°31'00"
S 6-A	39°52'55"	108°30'28"
6-B	39°52'53"	108°30'29"
6-C	39°52'51"	108°30'31"

LATITUDES AND LONGITUDES FOR THEAVIFAUNA TRANSECTS

	<u>North Latitude</u>	<u>West Longitude</u>
PJ 5-A	39°54'25"	108°31'02"
PJ 5-B	39°54'29"	108°31'03"
S 5-A	39°54'18"	108°31'36"
S 5-B	39°54'22"	108°31'38"
PJ 6-A	39°52'51"	108°30'54"
PJ 6-B	39°52'57"	108°30'58"
S 6-A	39°52'48"	108°30'29"
S 6-B	39°52'51"	108°30'36"

LATITUDES AND LONGITUDES FOR THE
PHYTOSOCIOLOGICAL TRANSECTS

	<u>North Latitude</u>	<u>West Longitude</u>
PJ 5-A	39°54'22"	108°30'49"
5-B	39°54'20"	108°30'47"
5-C	39°54'28"	108°30'45"
5-D	39°54'28"	108°30'48"
5-E	39°54'25"	108°31'12"
PJ 6-A	39°53'10"	108°30'52"
6-B	39°53'09"	108°30'49"
6-C	39°53'06"	108°30'53"
6-D	39°53'07"	108°30'54"
6-E	39°52'46"	108°31'03"
SB 5-A	39°54'08"	108°31'12"
5-B	39°54'12"	108°31'22"
5-C	39°54'09"	108°31'37"
5-D	39°54'17"	108°31'33"
5-E	39°54'15"	108°31'48"
SB 6-A	39°53'07"	108°31'08"
6-B	39°52'46"	108°31'23"
6-C	39°52'23"	108°30'58"
6-D	39°52'47"	108°30'35"
6-E	39°53'01"	108°30'23"

LATITUDES AND LONGITUDES FOR THE RANGE - BROWSE,
PRODUCTIVITY AND UTILIZATION TRANSECTS

	<u>North Latitude</u>	<u>West Longitude</u>
MB 01	39°54'58"	108°32'26"
MB 02	39°54'58"	108°32'33"
MB 03	39°54'50"	108°32'39"
MB 04	39°54'51"	108°32'56"
PJ 05	39°54'44"	108°30'14"
PJ 06	39°54'44"	108°32'47"
PJ 07	39°53'46"	108°31'53"
SB 08	39°54'30"	108°30'47"
SB 10	39°54'40"	108°30'54"
PJ 11	39°54'40"	108°30'06"
PJ 12	39°55'05"	108°29'28"
SB 14	39°55'05"	108°30'32"
SB 15	39°54'27"	108°31'44"
PJ 16	39°54'44"	108°28'50"
PJ 17	39°54'13"	108°29'14"
PJ 19	39°53'22"	108°30'42"
SB 20	39°53'33"	108°30'34"
SB 22	39°52'36"	108°31'14"
SB 28	39°54'00"	108°30'53"
SB 30	39°54'04"	108°28'34"
MB 31	39°55'57"	108°32'17"
MB 32	39°54'24"	108°32'22"
MB 33	39°54'16"	108°31'53"
MB 34	39°55'09"	108°31'15"
MB 35	39°55'23"	108°31'18"
MB 36	39°52'57"	108°30'47"
PJ 37	39°56'28"	108°31'10"
SB 38	39°53'42"	108°32'15"
SB 39	39°52'13"	108°31'38"
PJ 40	39°53'46"	108°28'52"

Ca_md Formats

Tract: C-a
 Monitoring Activity: TERRESTRIAL
 Format: fmpd78
 Period Covered: 9/14/78-00/00/78

Parameter	Length	Format	Units
space	1	1x	na
station	6	a6	-
space	2	2x	na
latitude	8	f8.4	degrees.latitude
space	2	2x	na
longitude	8	f8.4	degrees.longitude
space	2	2x	na
plot	2	i2	-
space	2	2x	na
elevation	5	i5	ft
space	2	2x	na
aspect	2	a2	-
space	2	2x	na
slope	2	i2	-
space	2	2x	na
vegetation	2	a2	-
space	2	2x	na
date	5	i5	mddy
space	2	2x	na
no.of.pellet.groups	2	i2	-
space	2	2x	na
season	1	a1	-

Plot size - 4 sq. meters.

Ca_md Formats

Tract: C-a
 Monitoring Activity: TERRESTRIAL
 Format: smpd78
 Period Covered: 05/16/78-00/00/78

Parameter	Length	Format	Units
space	1	1x	na
station	6	a6	-
space	2	2x	na
latitude	8	f8.4	degrees.latitude
space	2	2x	na
longitude	8	f8.4	degrees.longitude
space	2	2x	na
plot.number	2	i2	-
space	20	20x	na
date	6	a6	mmddy
space	2	2x	na
no.of.pellet.groups	2	i2	na
space	2	2x	na
season	1	a1	na

Large skips of space are so that the various files are similar.
 Plot - 4 sq. meters.

Ca_md Formats

Tract: C-a
 Monitoring Activity: TERRESTRIAL
 Format: m179
 Period Covered: 05/12/79-05/31/79
 09/10/79-09/20/79

Parameter	Length	Format	Units
space	1	1x	na
station	6	a6	-
space	2	2x	na
latitude	8	f8.4	degrees.latitude
space	2	2x	na
longitude	8	f8.4	degrees.longitude
space	2	2x	na
plot	2	i2	-
space	2	2x	na
elevation	5	i5	ft.
space	2	2x	na
slope	2	i2	-
space	2	2x	na
aspect	2	a2	-
space	2	2x	na
type	2	a2	-
space	2	2x	na
date	5	i5	mddy
space	2	2x	na
number	2	i2	-

Ca_md Formats

Tract: C-a
 Monitoring Activity: TERRESTRIAL
 Format: mlsp80
 Period Covered: 5/12/80-5/31/80

Parameter	Length	Format	Units
space	1	1x	na
station	6	a6	-
space	2	2x	na
latitude	8	f8.4	degrees
space	2	2x	na
longitude	8	f8.4	degrees
space	2	2x	na
plot.number	2	i2	-
space	2	2x	na
elevation	5	i5	ft.
space	2	2x	na
slope	2	i2	na
space	1	1x	na
aspect	3	a3	-
space	2	2x	na
habitat	2	a2	-
space	1	1x	na
date	6	a6	mmddy
space	2	2x	na
pellet/count	2	i2	-

Ca_md Formats

Tract: C-a
 Monitoring Activity: TERRESTRIAL
 Format: fm80
 Period Covered: 9/23/80-9/00/80

Parameter	Length	Format	Units
space	1	lx	na
station	6	a6	-
space	1	lx	na
latitude	8	f8.4	degrees.latitude
space	1	lx	na
longitude	8	f8.4	degrees.longitude
space	1	lx	na
date	6	a6	mmddy
space	1	lx	na
plot.number	2	i2	-
space	1	lx	na
elevation	4	i4	(feet.above.sea.level)
space	1	lx	na
slope	3	i3	-
space	1	lx	na
aspect	3	a3	-
space	1	lx	na
vegetation.type	2	a2	-
space	1	lx	na
number.of.pellets.counted	2	i2	-

Ca_md Format

Tract: C-a
 Monitoring Activity: TERRESTRIAL
 Format: sfmd81
 Period Covered: Spring and Fall 1981

Parameter	Length	Format	Units
space	1	1x	na
station	6	a6	-
space(to.be.consistent)	22	22x	na
plot	2	i2	-
space	2	2x	na
elevation	5	i5	-
space	2	2x	na
slope	2	i2	-
space	2	2x	na
aspect	2	a3	-
space	2	2x	na
vegetation	2	a2	-
space	2	2x	na
date	6	a6	mmddy
space	2	2x	na
pellet.count	2	i2	-

Ca_md Formats

Tract: C-a
 Monitoring Activity: TERRESTRIAL
 Format: avi79
 Period Covered: 06/13/79-06/16/79

Parameter	Length	Format	Units
space	1	lx	na
station	6	a6	-
space	2	2x	na
latitude	8	f8.4	degrees
space	2	2x	na
longitude	8	f8:4	degrees
space	2	2x	na
date	5	a5	mddy
space	2	2x	na
species	6	a6	-
space	2	2x	na
number.observed	2	i2	-

Ca_md Formats

Tract: C-a
 Monitoring Activity: TERRESTRIAL
 avi80_md format
 Period Covered: 6/04/80-6/06/80

Parameter	Length	Format	Units
space	1	lx	na
station	6	a6	-
latitude	9	f9.4	degrees.latitude
longitude	9	f9.4	degrees.longitude
space	1	lx	na
date	6	a6	mmddy
space	1	lx	na
species.code	6	a6	-
space	1	lx	na
number.of.birds.observed	3	i3	-
space	1	lx	na
time.transect.was.walked	4	i4	-

Ca_md Formats

Tract: C-a
 Monitoring Activity: TERRESTRIAL
 Format: avi81
 Period Covered: 5/28/81

Parameter	Length	Format	Units
space	1	lx	na
station	6	a6	-
space	19	19x	na
date	6	a6	mmddy
space	1	lx	na
species.code	6	a6	-
space	1	lx	na
number.of.birds.observed	3	i3	-
space	1	lx	na
times.transect.walked	4	i4	-

Ca_md Formats

Tract: C-a
 Monitoring Activity: TERRESTRIAL
 Format: mm79
 Period Covered: 06/26/79-06/28/79

Parameter	Length	Format	Units
space	1	1x	na
station	6	a6	-
space	2	2x	na
latitude	8	f8.4	degrees
space	2	2x	na
longitude	8	f8.4	degrees
space	2	2x	na
date	5	a5	mddy
space	2	2x	na
time	1	a1	-
space	2	2x	na
trap	3	a3	-
space	2	2x	na
species	6	A6	-
space	2	2x	na
identification.number	3	i3	-
space	2	2x	na
number.times.captured	2	a2	-
space	2	2x	na
sex	1	a1	M.or.F
space	2	2x	na
age	1	a1	-
space	2	2x	na
reproductive.status	1	a1	-

0 means no data given on tape.

- given for reproductive.status when not known.

. number times captured (no data) but other data given.

Ca_md Formats

Tract: C-a
 Monitoring Activity: TERRESTRIAL
 Format: sm81
 Period Covered: 6/9/81

Parameter	Length	Format	Units
space	1	1x	na
station	6	a6	-
space	21	21x	na
date	6	a6	mmddy
space	2	2x	na
time	1	a1	-
space	2	2x	na
trap.number	3	a3	-
space	2	2x	na
species.code	6	a6	-
space	2	2x	na
identification.number	3	a3	-
space	2	2x	na
number.times.captured	1	a1	-
space	2	2x	na
sex	1	a1	-
space	2	2x	na
age	1	a1	-
space	2	2x	na
reproductive.status	1	a1	-
space	2	2x	na
recaptured	2	a2	-

Ca_md Formats

Tract: C-a
 Monitoring Activity: TERRESTRIAL
 Format: smam80
 Period Covered: 6/11/80-6/13/80

Parameter	Length	Format	Units
space	1	lx	na
station	6	a6	-
space	1	lx	na
latitude	9	f9.4	degrees.latitude
longitude	9	f9.4	degrees.longitude
space	1	lx	na
date	6	a6	mmddy
space	1	lx	na
trap	3	a3	-
space	1	lx	na
species.code	6	a6	-
space	1	lx	na
species	3	a3	-
space	1	lx	na
number.times.captured	1	a1	-
space	1	lx	na
sex	1	a1	-
space	1	lx	na
age	1	a1	-
space	1	lx	na
reproductive.status	1	a1	-
space	1	lx	na
recaptured	1	a2	-

Ca_md Formats

Tract: C-a
 Monitoring Activity: TERRESTRIAL
 Format: br80
 Period Covered: 4/29/80-5/16/80

Parameter	Length	Format	Units
space	1	lx	na
station	5	a5	-
space	1	lx	na
latitude	8	f8.4	degrees.latitude
space	1	lx	na
longitude	8	f8.4	degrees.longitude
space	1	lx	na
date	6	a6	mmddy
space	1	lx	na
plant.number (obs.no.)	2	a2	-
space	1	lx	na
species.code	6	a6	-
space	1	lx	na
form.class	1	a1	-
space	1	lx	na
age.class	1	a1	-
space	1	lx	na
leader.usage	2	a2	-
space	1	lx	na
hedging.class	1	a1	-
space	1	lx	na
availability	3	a3	-

Form class

- 1-all available, little or no hedging
- 2-all available, moderate hedging
- 3-all available, severe hedging
- 4-partially available, little or no hedging
- 5-partially available, moderately hedged
- 6-partially available, severely hedged
- 7-unavailable
- 8-dead

Age class

- S seedlings, less than 0.3 cm basal diameter
- Y young, 0.3 to 0.6 cm basal diameter
- M mature, over 0.6 cm basal diameter
- D decadent, more than 25% of crown surface dead

Hedging classification

Classification based upon the length of appearance

(hedging of the previous year's growth [the two-year-old wood])

- 1 none too light
- 2 moderate
- 3 severe

Availability

Visual estimate of the percent of the plant available to deer as browse, i.e., that portion less than six feet tall.

Ca_md Formats

Tract: C-a
 Monitoring Activity: TERRESTRIAL
 Format: brsp80, br81
 Period Covered: 04/29/80 - 05/16/80
 04/28/81 - 05/15/81

Parameter	Length	Format	Units
space	1	1x	na
habitat	2	a2	-
space	2	2x	na
transect	2	i2	-
space	2	2x	na
date	6	i6	mmddy
space	2	2x	na
number	2	i2	-
space	2	2x	na
species.code	6	a6	-(see.below)
space	2	2x	na
form.class	1	i1	-(see.below)
space	2	2x	na
age.class	1	a1	-(see.below)
space	2	2x	na
leader.usage	2	i2	-(see.below)
space	2	2x	na
hedging.class	1	a1	-(see.below)
space	2	2x	na
availability	3	i3	-(see.below)

Form Class

- 1-all available, little or no helping
- 2-all available, moderate hedging
- 3-all available, severe hedging
- 4-partially available, little or no hedging
- 5-partially available, moderately hedged
- 6-partially available, severely hedged
- 7-unavailable
- 8-dead

Age Class

- S seedlings, less than 0.3 cm basal diameter
- Y young, 0.3 to 0.6 cm basal diameter
- M mature, over 0.6 cm basal diameter
- D decadent, more than 25% of crown surface dead

Hedging Classification

Classification based upon the length of appearance
 (hedging of the previous year's growth [the two-year-old wood])
 1 none too light 2 moderate 3 severe

Availability

Visual estimate of the percent of the plant available to deer as browse,
 i.e., that portion less than six feet tall.

Ca_md Formats

Tract: C-a
 Monitoring Activity: TERRESTRIAL
 Format: rbr81
 Period Covered: 06/23/81

Parameter	Length	Format	Units
space	1	lx	na
vegetation.type	2	a2	-
space	1	lx	na
sample.unit	2	a2	-
space	1	lx	na
date	6	a6	mmddy
space	1	lx	na
observer	2	a2	-
space	1	lx	na
species.code	6	a6	-(see.below)
space	1	lx	na
form.class	2	a2	-(see.below)
space	1	lx	na
age.class	2	a2	-(see.below)
space	1	lx	na
leader.usage.percent	4	a4	-(see.below)
space	1	lx	na
hedging.class	2	a2	-(see.below)
space	1	lx	na
availability.percent	6	a6	-(see.below)

Form class

- 1-all available, little or no hedging
- 2-all available, moderate hedging
- 3-all available, severe hedging
- 4-partially available, little or no hedging
- 5-partially available, moderately hedged
- 6-partially available, severely hedged
- 7-unavailable
- 8-dead

Age class

- S seedlings, less than 0.3 cm basal diameter
- Y young, 0.3 to 0.6 cm basal diameter
- M mature, over 0.6 cm basal diameter
- D decadent, more than 25% of crown surface dead

Hedging classification

Classification based upon the length of appearance
 (hedging of the previous year's growth [the two-year-old wood])

1 none too light	2 moderate	3 severe
------------------	------------	----------

Availability

Visual estimate of the percent of the plant available to deer as browse, i.e., that portion less than six feet tall.

Ca_md Formats

Tract: C-a
 Monitoring Activity: TERRESTRIAL
 Format: rpnd
 Period Covered: 09/00/78-09/00/78

Parameter	Length	Format	Units
space	1	1x	na
station	5	a5	na
space	2	2x	na
latitude	8	f8.4	degrees.latitude
space	2	2x	na
longitude	8	f8.4	degrees.longitude
space	2	2x	na
date	6	a6	mmddy(dd.is.zero)
space	2	2x	na
species	7	a7	-
space	2	2x	na
plot	2	a2	-
space	12	12x	na
weight	7	f7.2	grams(what.is.it?)

Ca_md Formats

Tract: C-a
 Monitoring Activity: TERRESTRIAL
 Format: rprd
 Period Covered: 09/25/79-10/10/79

Parameter	Length	Format	Units
space	1	1x	na
station	5	a5	na
space	2	2x	na
latitude	8	f8.4	degrees.latitude
space	2	2x	na
longitude	8	f8.4	degrees.longitude
space	2	2x	na
date	6	a6	mmddy
space	2	2x	na
species	7	a7	-
space	2	2x	na
plot	2	a2	-
space	2	2x	na
type	1	a1	-
space	2	2x	na
estimated.weight	5	f5.2	grams
space	2	2x	na
green.weight	5	f5.2	grams
space	2	2x	na
dry.weight	5	f5.2	grams
space	2	2x	na
calculated.weight	5	f5.2	grams

5 plots are clipped.

5 plots are protected - don't have dry but calculated weight.

Ca_md Formats

Tract: C-a
 Monitoring Activity: TERRESTRIAL
 Format: rprd80
 Period Covered: 09/03/80 - 09/17/80

Parameter	Length	Format	Units
space	1	1x	na
station	5	a5	-
space	1	1x	na
latitude	8	f8.4	degrees.latitude
space	1	1x	na
longitude	8	f8.4	degrees.longitude
space	1	1x	na
date	6	a6	mmddy
space	1	1x	na
species	6	a6	-
space	1	1x	na
plot	2	a2	-
space	1	1x	na
exclosure (y.or.n)	1	a1	-
space	1	1x	na
estimated.weight	4	a4	grams
space	1	1x	na
green.weight	4	a4	grams
space	1	1x	na
dry.weight	4	a4	grams

If exclosure = n, then the green weight and dry weight variables will be blank.

Ca_md Formats

Tract: C-a
 Monitoring Activity: TERRESTRIAL
 Format: ran81
 Period Covered: 8/26 - 9/10/81

Parametr	Length	Format	Units
space	1	lx	na
station	5	a5	na
space	22	22x	na
date	6	a6	mmddy
space	2	2x	na
species	7	a7	-
space	2	2x	na
plot	2	a2	-
space	12	12x	na
weight	7	f7.2	grams(what.is.it?)
space	2	2x	na
exclosure	1	a1	-

Ca_md Formats

Tract: C-a
 Monitoring Activity: TERRESTRIAL
 Format: sch380
 Period Covered:

Parameter	Length	Format	Units
space	1	lx	na
substrate.type.location	2	a2	-
space	1	lx	na
depth.of.soil.sample	2	a2	-
space	1	lx	na
soil.texture	4	a4	-
space	1	lx	na
pH.water	5	i5	-
space	1	lx	na
pH buffer	5	i5	-
space	1	lx	na
cation.exchange.capacity	5	i5	-
space	1	lx	na
salt.content	5	i5	-
space	1	lx	na
sodium(Na)	5	i5	mg/l
space	1	lx	na
lime	5	i5	-
space	1	lx	na
organic.matter	5	i5	-
space	1	lx	na
organics	5	i5	-
space	1	lx	na
nitrate (NO ₃)	5	i5	mg/l
space	1	lx	na
phosphorus (P)	5	i5	mg/l
space	1	lx	na
potassium (K)	5	i5	mg/l
space	1	lx	na
calcium (Ca)	5	i5	mg/l
space	1	lx	na
magnesium (Mg)	5	i5	mg/l
space	1	lx	na
sulfur (S)	5	i5	mg/l
space	1	lx	na
boron (B)	5	i5	mg/l
space	1	lx	na
zinc (Zn)	5	i5	mg/l
space	1	lx	na
iron (Fe)	5	i5	mg/l
space	1	lx	na
manganese (Mn)	5	i5	mg/l
space	1	lx	na

Ca_md Formats

Tract: C-a

Monitoring Activity: TERRESTRIAL

Format: sch380 (continued from previous page)

Period Covered: 04/11/78 - 05/14/78

Parameter	Length	Format	Units
copper (Cu)	5	i5	mg/l
space	1	1x	na
arsenic (As)	5	i5	mg/l
space	1	1x	na
fluorine (F)	5	i5	mg/l
space	1	1x	na
molybdenum (Mo)	5	i5	mg/l
space	1	1x	na
selenium (Se)	5	i5	mg/l

Ca_md Formats

Tract: C-a
 Monitoring Activity: TERRESTRIAL
 Format: phy79
 Period Covered: 06/14/79 - 06/29/79

Parameter	Length	Format	Units
Record 1			
space	1	1x	na
station	6	a6	-
space	2	2x	na
latitude	8	f8.4	degrees.latitude
space	2	2x	na
longitude	8	f8.4	degrees.longitude
space	2	2x	na
date	5	5a	mddy
space	2	2x	na
elevation	4	i4	ft
space	2	2x	na
aspect	3	i3	-
space	2	2x	na
slope	3	i3	-
density.or.cover	1	a1	d.or.c
space	2	2x	na
species	7	a7	-

Record 2

macroplot or microplots (20 values) same for next 19 values	5	f5.1	-
---	---	------	---

Ca_md Formats

Tract: C-a
 Monitoring Activity: TERRESTRIAL
 Format: phy80
 Period Covered: 06/05/80 - 06/17/80

Parameter	Length	Format	Units
space	1	1x	na
station	6	a6	-
space	2	2x	na
latitude	8	f8.4	degrees.latitude
space	2	2x	na
longitude	8	f8.4	degrees. longitude
space	2	2x	na
date	6	a6	mmddy
space	2	2x	na
species	7	a7	-
space	2	2x	na
growth.form	1	a1	-
space	2	2x	na
parameter(d.or.c)	1	a1	-
sample.plots(1_20)	60	20i3	-

Ca_md Formats

Tract: C-a
 Monitoring Activity: TERRESTRIAL
 Format: pht81
 Period Covered: June 1981

Parameter	Length	Format	Unit
space	1	lx	na
station	6	a6	-
space	22	22x	na
date	6	a6	mmddy
space	2	2x	na
species	7	a7	-
space	2	2x	na
growth.form	1	a1	-
space	2	2x	na
parameter(d.or.c)	1	a1	-
sample.plots(1_20)	60	20i3	-

Ca_md Formats

Tract: C-b
 Monitoring Activity: TERRESTRIAL
 Format: derk81
 Period Covered: 1/79 - 12/81

Parameter	Length	Format	Units
space	1	lx	na
date	6	a6	mmddy
space	1	lx	na
mile.marker	4	f4.1	-
space	1	lx	na
age	1	l	-
space	1	lx	na
sex	1	al	-
space	1	ix	na
number.killed	1	il	-

Ca_md Formats

Tract: C-a
 Monitoring Activity: TERRESTRIAL
 Format: rcoa81, rbia81
 Period Covered: June 30, 1981
 June 30, 1981

Parameter	Length	Format	Unit
space	1	lx	na
habitat	2	a2	-
space	1	lx	na
transect	3	a3	-
space	1	lx	na
date	6	a6	mmdyy
space	1	lx	na
species.code	7	a7	-
space	1	lx	na
growth.form	1	al	-
space	1	lx	na
parameter	1	al	-
record 1			
above.information.plus sample.plots 1-20	60	20i3	-
record 2			
init.information/plus sample.plots 21-40	60	20i3	-
record 3			
init.information.plus sample.plots 41-50	30	10i3	-

Ca_md Formats

Tract: C-a
 Monitoring Activity: TERRESTRIAL
 Format: rcovb81, rbib81
 Period Covered: June 30, 1981
 June 30, 1981

Parameter	Length	Format	Units
space	1	lx	na
habitat	2	a2	-
space	1	lx	na
transect	3	a3	-
space	1	lx	na
date	6	a6	mmddy
space	1	lx	na
species.code	7	a7	-
space	1	lx	na
growth form	1	a1	-
space	1	lx	na
parameter	1	a1	-

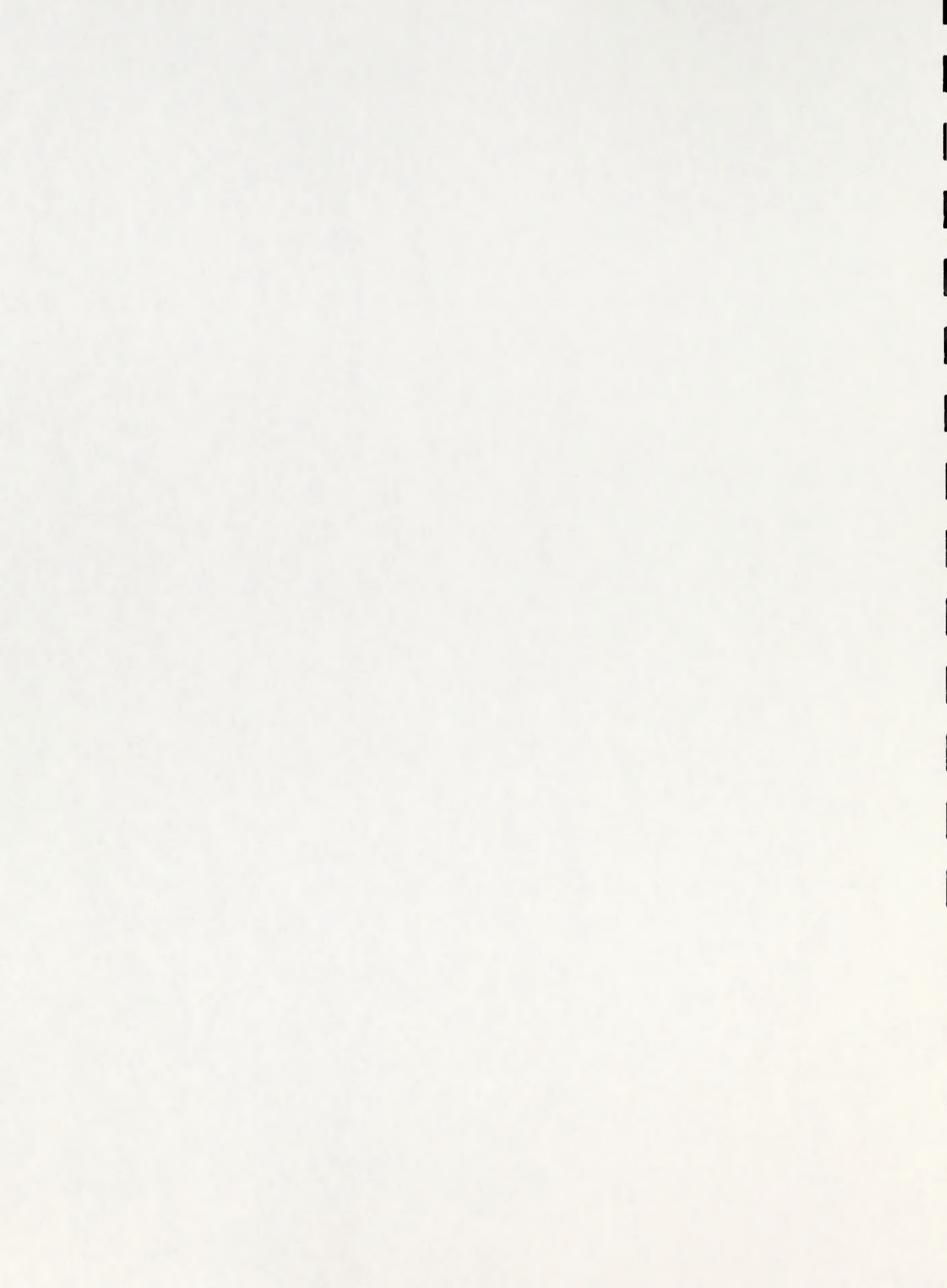
	record 1		
above.information.plus sample.plots 1-20	60	20i3	-

	record 2		
init.information.plus sample.plots 21-40	60	20i3	-

	record 3		
init.information.plus sample.plots 41-60	60	20i3	-

	record 4		
init.information.plus sample.plots 61-80	60	3i20	-

	record 5		
init.information.plus sample.plots 81-100	60	3i20	-



Ca_md Formats

Tract: C-a
 Monitoring Activity: TERRESTRIAL
 Format: recd81, rbib81
 Period Covered: June 30, 1981

Parameter	Length	Format	Units
space	1	lx	na
habitat	2	a2	-
space	1	lx	na
transect	3	a3	-
space	1	lx	na
date	6	a6	mmddy
space	1	lx	na
species code	7	a7	-
space	1	lx	na
growth.form	1	a1	-
space	1	lx	na
parameter	1	a1	-
record 1			
above.information.plus sample.plots.1-20	60	20i3	-
record 2			
init.information.plus sample.plots 21-40	60	20i3	-
record 3			
init.information.plus sample.plots 41-60	60	20i3	-
record 4			
init.information.plus sample.plots 61-80	60	20i3	-
record 5			
init.information.plus sample.plots 81-100	60	20i3	-
record 6			
init.information.plus sample.plots 101-120	60	20i3	-
record 7			
init.information.plus sample.plots 121-140	60	20i3	-
record 8			
init.information.plus sample.plots 141-150	30	10i3	-

1. The first part of the document is a list of names and addresses. The names are listed in the first column, and the addresses are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The addresses are: 123 Main St, 456 Elm St, and 789 Oak St.

Name	Address
John Doe	123 Main St
Jane Smith	456 Elm St
Bob Johnson	789 Oak St

Name	Address
John Doe	123 Main St
Jane Smith	456 Elm St
Bob Johnson	789 Oak St
John Doe	123 Main St
Jane Smith	456 Elm St
Bob Johnson	789 Oak St
John Doe	123 Main St
Jane Smith	456 Elm St
Bob Johnson	789 Oak St
John Doe	123 Main St
Jane Smith	456 Elm St
Bob Johnson	789 Oak St

Ca_md Formats

Tract: C-a
Monitoring Activity: Mule Deer Habitat
Format: j48_16
Period Covered: 1984

Parameters	Col.	Format	Units
veg_type	1	A2	
transect	3	I2	
plot	5	I2	
seed	7	I1	
chop	8	I1	
fertilizer	9	I1	
orientation	10	I1	
date	11	I1	
species	20	3I2	
gr_form	26	A6	
invad	27	A1	
param	28	A1	
cover	29	I4	

Table 1
Description of variables used in the model
Source: Author's calculations

Variable	Description	Unit	Source
Age	Age of the respondent	Years	Survey
Gender	Gender of the respondent	Male/Female	Survey
Married	Married status	Yes/No	Survey
Education	Level of education	Years	Survey
Income	Annual income	Dollars	Survey
Health	Health status	Good/Bad	Survey
Religion	Religious affiliation	Various	Survey
Region	Geographic region	North/South	Survey
Time	Time of day	Hours	Survey
Season	Season of the year	Spring/Summer	Survey

Ca_md Format

Tract: C-a
 Monitoring Activity: Deer Pellet Count
 Format: j16.27
 Period Covered: 1978-1982

Parameter	Col.	Format	Units
block	1	I2	
samp-unit	5	I2	
date	10	3I2	mo-da-yr
elev	20	I4	
slope	25	I2	
aspect	30	A2	
veg-type	35	A2	
transect	40	I1	
plot	45	I2	
pellet	50	I2	

Table 1
Description of Activities - Post Police Course
Period Covered: 1978-1985

Activity	Col.	Form	Units
Police	1	12	
Community	2	12	
Police	10	12	word
Police	20	12	
Police	32	12	
Police	30	12	
Police	32	12	
Police	40	12	
Police	42	12	
Police	50	12	

Ca_md Format

Tract: C-a
 Monitoring Activity: Phytosociological Studies
 Format: j16.19
 Period Covered: 1979-1982

Parameter	Col.	Format	Units
veg-type	1	A2	
area	3	I1	
transect	5	A1	
date	6	3I2	mo-da-yr
species	12	A6	
gr_form	18	A1	
param	19	A1	
plt 01	20	I3	
plt 02	23	I3	
plt 03	26	I3	
plt 04	29	I3	
plt 05	32	I3	
plt 06	35	I3	
plt 07	38	I3	
plt 08	41	I3	
plt 09	44	I3	
plt 10	47	I3	
plt 11	50	I3	
plt 12	53	I3	
plt 13	56	I3	
plt 14	59	I3	
plt 15	62	I3	
plt 16	65	I3	
plt 17	68	I3	
plt 18	71	I3	
plt 19	74	I3	
plt 20	77	I3	

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Ca_md Format

Tract: C-a
 Monitoring Activity: Browse Condition & Utilization
 Format: jkc016.18
 Period Covered: 1977-1982

Parameter	Col.	Format	Units
vegetation type	1	A2	
transect number	5	I3	
date	10	3I2	mo-da-yr
plant number	17	I2	
species	20	A6	
growth form	27	A1	
form class	30	I1	
age class	35	A1	
hedging class	40	A1	
species availability	45	I3	%
leader usage	50	I3	%

Forest Management Plan for the Forest of the State of California
Forest Management Plan for the Forest of the State of California
Forest Management Plan for the Forest of the State of California

Forest	Volts	Forest	Volts
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20

Ca_md Format

Tract: C-a
 Monitoring Activity: Wildlife - Mule Deer Pellet Count
 Format: j26_9
 Period Covered: 1978-1983

Parameter	Col.	Format	Units
block	1	I2	
sample unit	3	I2	
date	8	3I2	mo-da-yr
elev	14	I4	
slope	19	I2	
aspect	22	A2	
veg_type	24	A2	
transect	26	I1	
plot	27	I2	
pellet	29	I2	

Ca_md Formats

Tract: C-a
 Monitoring Activity: Avafauna
 Format: Avi80
 Period Covered: 1980

Parameter	Col.	Format	Units
station	2	A6	
latitude	8	F9.4	
longitude	17	F9.4	
date	27	A6	mo-da-yr
spec	34	A6	
No	41	I3	
time	45	I4	

Forest Survey
Geographical Analysis
Forest Survey
Forest Survey 1980

Station	Col.	Forest	Date
Station	1	10	
Station	8	10.4	
Station	17	10.4	
Station	27	10.4	10-12-77
Station	34	10	
Station	41	13	
Station	42	14	

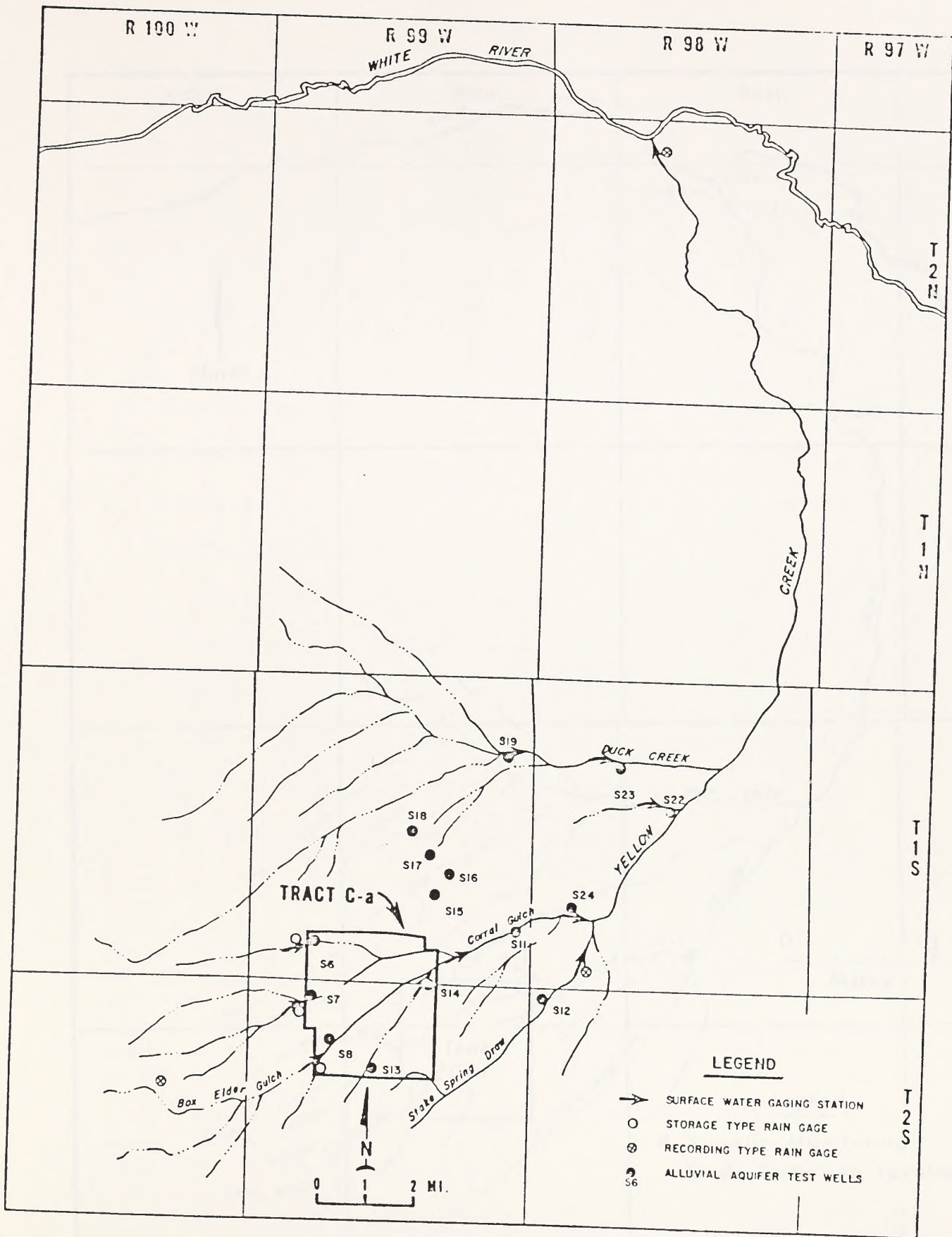


Figure 7-2-8
 YELLOW CREEK DRAINAGE BASIN

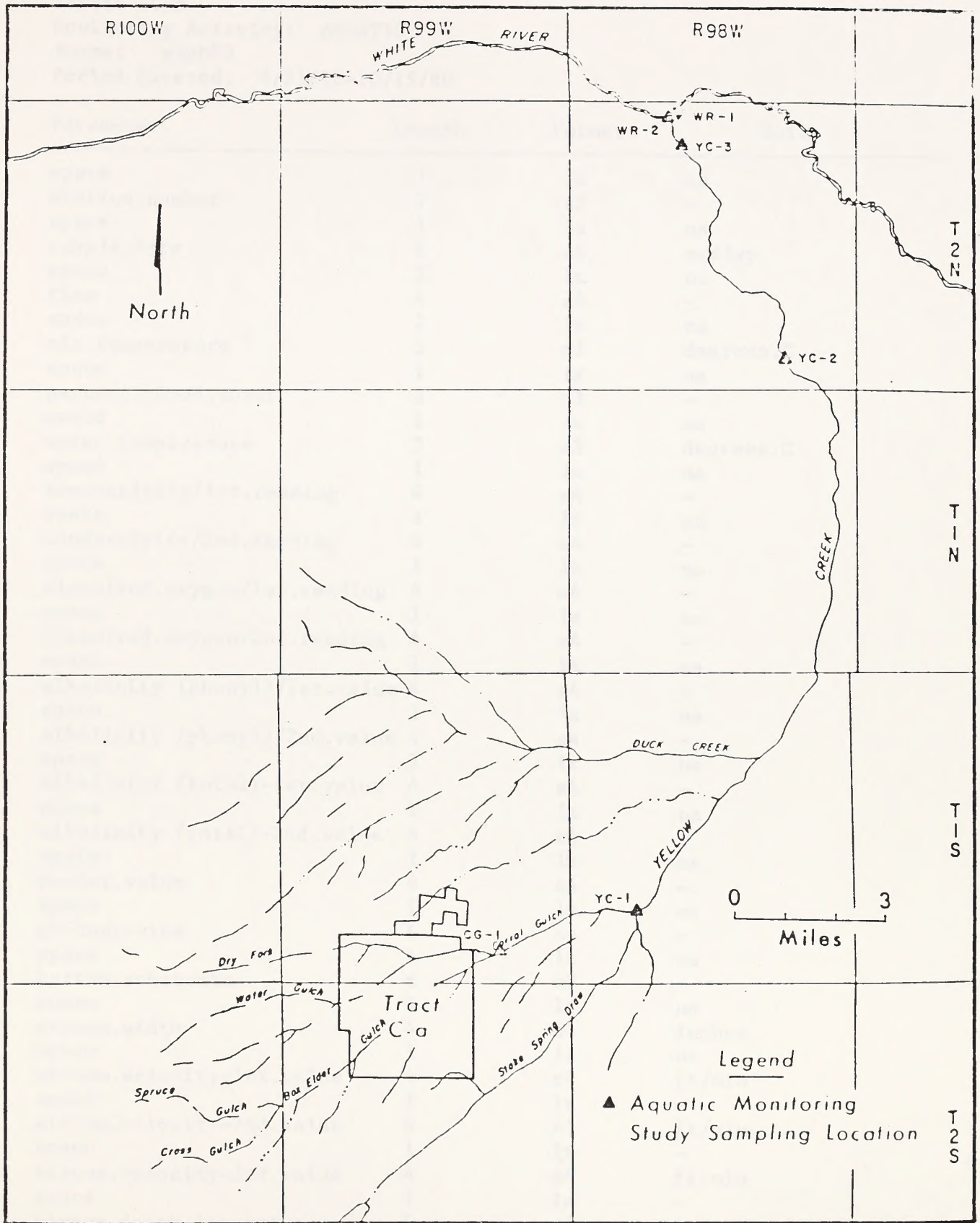


Figure 5-1
Locations of Aquatic Ecology MDP Sampling Sites

Ca_md Formats

Tract: C-a
 Monitoring Activity: AQUATIC
 Format: aqph80
 Period Covered: 4/21/80-10/15/80

Parameter	Length	Format	Units
space	1	lx	na
station.number	2	a2	-
space	1	lx	na
sample.date	6	a6	mmddy
space	1	lx	na
time	4	a4	-
space	1	lx	na
air.temperature	3	a3	degrees.C
space	1	lx	na
percent.cloud.cover	3	a3	-
space	1	lx	na
water.temperature	3	a3	degrees.C
space	1	lx	na
conductivity/1st.reading	4	a4	-
space	1	lx	na
conductivity/2nd.reading	4	a4	-
space	1	lx	na
dissolved.oxygen/1st.reading	4	a4	-
space	1	lx	na
dissolved.oxygen/2nd.reading	4	a4	-
space	1	lx	na
alkalinity (phenyl)/1st.value	4	a4	-
space	1	lx	na
alkalinity (phenyl)/2nd.value	4	a4	-
space	1	lx	na
alkalinity (total)-1st.value	4	a4	-
space	1	lx	na
alkalinity (total)-2nd.value	4	a4	-
space	1	lx	na
ph-1st.value	4	a4	-
space	1	lx	na
ph-2nd.value	4	a4	-
space	1	lx	na
bottom.substrate	8	a8	-
space	1	lx	na
stream.width	4	a4	inches
space	1	lx	na
stream.velocity-1st.value	4	a4	ft/min
space	1	lx	-
stream.velocity-2nd.value	4	a4	ft/min
space	1	lx	-
stream.velocity-3rd.value	4	a4	ft/min
space	1	lx	-
stream.depth-1st.value	4	a4	ft
space	1	lx	-
stream.depth-2nd.value	4	a4	ft
space	1	lx	-
stream.depth-3rd.value	4	a4	ft

Ca_md Formats

Tract: C-a
 Monitoring Activity: AQUATIC
 Format: aqch80
 Period Covered: 00/80-00/80

Parameter	Length	Format	Units
space	1	lx	na
station.number	2	a2	-
space	1	lx	na
replicate.designation(a.or.b)	1	a1	-
space	1	lx	na
date.sampled	6	a6	mmddyy
space	1	lx	na
date.received	6	a6	mmddyy
space	1	lx	na
date.reported	6	a6	mmddyy
space	1	lx	na
rice.sample.number	8	a8	-
space	1	lx	na
client.number	10	a10	-
space	1	lx	na
alkalinity (CaCO ₃)	4	a4	mg/l
space	1	lx	na
alkalinity (pht)	2	a2	-
space	1	lx	na
bicarbonate	3	a3	mg/l
space	1	lx	na
calcium	3	a3	mg/l
space	1	lx	na
chloride	3	a3	mg/l
space	1	lx	na
fluoride	3	a3	mg/l
space	1	lx	na
magnesium	3	a3	mg/l
space	1	lx	na
nitrate	3	a3	mg/l
space	1	lx	na
ortho-phosphorus	3	a3	mg/l
space	1	lx	na
total.phosphorus	3	a3	mg/l
space	1	lx	na
potassium	3	a3	mg/l
space	1	lx	na
silica	3	a3	mg/l
space	1	lx	-
sodium	3	a3	mg/l
space	1	lx	-
dissolved.solids	4	a4	-
space	1	lx	-
sulfate	4	a4	mg/l
space	1	lx	-
turbidity	3	a3	-
space	1	lx	-
boron	4	a4	mg/l

Ca_md Formats

Tract: C-a
 Monitoring Activity: AQUATIC
 Format: aqpr80
 Period Covered: 4/21/80-10/00/80

Parameter	Length	Format	Units
space	1	lx	na
station.number	2	a2	-
space	1	lx	na
replicate.designation	1	a1	-
space	1	lx	na
species.code	6	a6	-
space	1	lx	na
number.observed	3	a3	-
space	1	lx	na
date.sampled	6	a6	mmddy
space	1	lx	na
sample.location	2	a2	-
space	1	lx	na
area.of.transect	6	a6	-
space	1	lx	na
number.of.drops	3	a3	-
space	1	lx	na
number.of.transects	2	a2	-
space	1	lx	na
cover.slip.area	5	a5	-
space	1	lx	na
number.of.drops/ml	3	a3	-
space	1	lx	na
number.of.replicates	1	a1	-
space	1	lx	na
sample.log.number	7	a7	-

P is used for number observed occasionally.
 Six files are recorded together.

Ca_md Formats

Tract: C-a
 Monitoring Activity: AQUATIC
 Format: gpd79
 Period Covered: 4/25/79 - 10/09/79

Parameter	Length	Format	Units
space	1	1x	na
mariah.no	3	i3	-
space	2	2x	na
station	2	i2	-
space	2	2x	na
log	12	a12	-
space	2	2x	na
date	8	a8	mm/dd/yr
space	2	2x	na
collector	5	a5	-
space	2	2x	na
NOr	2	i2	-
space	2	2x	na
date2	8	a8	mm/dd/yy
space	2	2x	na
analy	5	a5	-
space	2	2x	na
species	4	a4	-
space	2	2x	na
rep.a	4	i4	-
space	2	2x	na
rep.8	4	i4	-



Ca_md Formats

Tract: C-a
 Monitoring Activity: AQUATIC
 Format: aqbn80
 Period Covered: 4/80 - 10/80

Parameter	Length	Format	Units
space	1	lx	na
station	2	a2	-
space	1	lx	na
species.code	5	a5	-
space	1	lx	na
number.observed-replicate.1	3	a3	-
space	1	lx	na
number.observed-replicate.2	3	a3	-
space	1	lx	na
number.observed-replicate.3	3	a3	-
space	1	lx	na
number.of.replicates	1	a1	-
space	1	lx	na
sample.date	6	a6	mmddyy
space	1	lx	na
analysis.date	6	a6	mmddyy
space	1	lx	na
sample.log.number	18	a18	-

Six files are recorded together.

Ca_md Formats

Tract: C-a
 Monitoring Activity: AQUATIC
 Format: bena80, benm80
 Period Covered: 4/80-4/80
 5/80-5/80

Parameter	Length	Format	Units
space	1	1x	na
mariah.project.number	3	a3	-
space	2	2x	na
station.number	2	i2	-
space	2	2x	na
sample.log.number	11	a11	-
space	2	2x	na
sample.data	6	a6	month
space	2	2x	na
sample.date	4	a4	year
space	2	2x	na
collector	5	a5	-
space	2	2x	na
number.of.replicates	1	i1	-
space	2	2x	na
analysis.date	8	a8	mm-dd-yy
space	2	2x	na
analyst	12	a12	-
space	2	2x	na
species.code	4	a4	-
space	2	2x	na
number.observed	2	a2	-
space	2	2x	na
number.observed	2	a2	-
space	2	2x	na
number.observed	2	a2	-

Ca_ind Formats

Tract: C-a

Monitoring Activity: AQUATIC

Format: aprbio

Period Covered: 4/21/80-00/00/80

Parameter	Length	Format	Units
space	1	lx	na
station.number	2	a2	-
space	1	lx	na
replicate.designation	1	a1	-
space	1	lx	na
dry.weight	8	a8	grams(decimal)
space	1	lx	na
ash.weight	8	a8	grams(decimal)
space	1	lx	na
date	6	a6	mmddy
space	1	lx	na
area scraped	3	a3	-
space	1	lx	-
log.number	7	a7	-

Ca_md Formats

Tract: C-a
 Monitoring Activity: AQUATIC
 Format: per80a, per80m
 Period Covered: 4/80-4/80
 5/80-5/80

Parameter	Length	Format	Units
space	1	1x	na
mariah.log.number	7	a7	-
space	2	2x	na
sample.station.number	2	i2	-
space	2	2x	na
replicate.designation	1	a1	-
space	2	2x	na
sample.data	6	a6	mmddy
space	2	2x	na
sample.location	12	a12	na
space	2	2x	na
area.of.transect	6	f6.3	-
space	2	2x	na
number.of.drops	3	i3	number.of.drops/ml
space	2	2x	na
number.of.times.surveyed	2	i2	-
space	2	2x	na
species.code	6	a6	-
space	2	2x	na
number.observed	3	a3	-

P occurs occasionally for number observed.

Ca_md Formats

Tract: C-a
 Monitoring Activity: AQUATIC
 Format: gpb79
 Period Covered: 4/01/79-10/01/79

Parameter	Length	Format	Units
space	1	1x	na
date	12	a12	number.1.then.month
space	2	2x	na
date	4	a4	year
space	2	2x	na
area.scraped	2	i2	-
space	2	2x	na
log.number	7	a7	-
space	2	2x	na
station/replicate.designation	3	a3	-
space	2	2x	na
dry.weight	8	f8.4	grams
space	2	2x	na
ash.weight	8	f8.4	grams

Ca_md Formats

Tract: C-a
 Monitoring Activity: AQUATIC
 Format: gppd79
 Period Covered: 4/25/79-10/09/79

Parameter	Length	Format	Units
space	1	1x	na
mariah.log.number	7	a7	-
space	2	2x	na
sample.station.number	2	i2	-
space	2	2x	na
replicate.designation	1	a1	-
space	2	2x	na
sample.date	6	a6	mmddy
space	2	2x	na
sample.location	12	a12	-
space	2	2x	na
area.of.transect	6	f6.3	-
space	2	2x	na
number.of.drops	3	i3	number of drops/ml
space	2	2x	na
number.of.times.surveyed	2	i2	-
space	2	2x	na
species.code	6	a6	-
space	2	2x	na
number.observed	3	a3	-

P occurs for number observed occasionally.

Ca_md Formats

Tract: C-a
 Monitoring Activity: AQUATIC
 Format: gmd79
 Period Covered: 04/26/79-10/12/79

Parameter	Length	Format	Units
client.number	8	a8	-
space	2	2x	na
date.sampled	8	a8	mddy
space	2	2x	na
date.received	8	a8	mddy
space	2	2x	na
date.reported	8	a8	mddy
space	2	2x	na
station.number	3	a3	-
space	2	2x	na
all.sampled.number	8	a8	-
space	2	2x	na
alkalinity(CaCO3)	5	f5.1	mg/l
space	2	2x	na
alkalinity(PHT)	5	f5.1	-
space	2	2x	na
bicarbonate	5	f5.1	mg/l
space	2	2x	na
calcium	4	f4.1	mg/l
space	2	2x	na
chloride	4	a4	mg/l
space	2	2x	na
fluoride	4	f4.1	mg/l
space	2	2x	na
magnesium	4	f4.1	mg/l
space	2	2x	na
nitrate	4	a4	mg.l
space	2	2x	na
ortho-phosphorus	4	a4	mg/l
space	2	2x	na
total-phosphorus	5	f5.1	mg/l
space	2	2x	na
potassium	5	f5.1	mg/l
space	2	2x	na
silica	5	f5.1	mg/l
space	2	2x	na
sodium	5	f5.1	mg/l
space	2	2x	na
dissolved.solids	5	f5.1	mg/l
space	2	2x	na
sulfate	5	f5.1	mg/l
space	2	2x	na
turbidity	5	f5.1	-
space	2	2x	na
boron	4	a4	mg/l

Ca_md Formats

Tract: C-a
 Monitoring Activity: AQUATIC
 Format: aqc81
 Period Covered: 04/27/81

Parameter	Length	Format	Units
Record 1			
space	1	lx	na
station	4	a4	-
space	1	lx	na
date	6	a6	mmddy
magnesium	10	al,f9.3	mg/l
sodium	10	al,f9.3	mg/l
potassium	10	al,f9.3	mg/l
iron	10	al,f9.3	mg/l
bicarbonate	10	al,f9.3	mg/l
carbonate	10	al,f9.3	mg/l
hydroxide	10	al,f9.3	mg/l
sulfates	10	al,f9.3	mg/l
chloride	10	al,f9.3	mg/l
TDS	10	al,f9.3	mg/l

99.9 not tested all values have sign < or =

Record 2			
space	12	12x	na
TSS	10	al,f9.3	mg/l
total alk	10	al,f9.3	mg/l
total hard	10	al,f9.3	mg/l
total PO ₄	10	al,f9.3	mg/l
ammonia	10	al,f9.3	mg/l
nitrate	10	al,f9.3	mg/l
fluoride	10	al,f9.3	mg/l
bromide	10	al,f9.3	mg/l
DOC	10	al,f9.3	mg/l
arsenic	10	al,f9.3	ug/l
boron	10	al,f9.3	ug/l

Format: aqc81 (cont)

Parameter Length Format Units

Record 3

space	12	12x	na
mercury	10	a1,f9.3	ug/1
molybdenum	10	a1,f9.3	ug/1
selenium	10	a1,f9.3	ug/1
silica	10	a1,f9.3	ug/1
vanadium	10	a1,f9.3	ug/1
aluminum	10	a1,f9.3	ug/1
barium	10	a1,f9.3	ug/1
beryllium	10	a1,f9.3	ug/1
bismuth	10	a1,f9.3	ug/1
cadmium	10	a1,f9.3	ug/1
chromium	10	a1,f9.3	ug/1

Record 4

space	12	12x	na
copper	10	a1,f9.3	ug/1
gallium	10	a1,f9.3	ug/1
germanium	10	a1,f9.3	ug/1
lead	10	a1,f9.3	ug/1
lithium	10	a1,f9.3	ug/1
manganese	10	a1,f9.3	ug/1
nickel	10	a1,f9.3	ug/1
strontium	10	a1,f9.3	ug/1
titanium	10	a1,f9.3	ug/1
zinc	10	a1,f9.3	ug/1
zirconium	10	a1,f9.3	ug/1

Record 5

gross alpha	10	a1,f9.3	ug/1
gross beta	10	a1,f9.3	ug/1
cation/anion	10	a1,f9.3	ug/1

Ca_md Formats

Tract: C-a
 Monitoring Activity: AQUATIC
 Format: aqpy81
 Period Covered: 04/28/81

Parameters	Length	Format	Units
space	1	1x	na
station	4	a4	-
space	1	1x	na
date	6	a6	mmddy
space	1	1x	na
time	4	a4	hhmm
space	1	1x	na
air.temperature	5	a5	-
space	1	1x	na
cloud.cover	5	a5	-
space	1	1x	na
water.temperature-rep.1		a5	-
space	1	1x	na
water.temperature-rep.2		a5	-
space	1	1x	na
conductivity-rep.1		a5	-
space	1	1x	na
conductivity-rep.2		a5	-
space	1	1x	na
dissolved.oxygen-rep.1		a5	-
space	1	1x	na
dissolved.oxygen-rep.2		a5	-
space	1	1x	na
Ph-rep.1	5	a5	-
space	1	1x	na
Ph-rep.2	5	a5	-
space	1	1x	na
stream.width	5	a5	-
space	1	1x	na
alkalinity.phenyl-rep.1	5	a5	-
space	1	1x	na
alkalinity.phenyl-rep.2	5	a5	-
space	1	1x	na
alkalinity.total-rep.1	6	a6	-
space	1	1x	na
alkalinity.total-rep.2	5	a5	-
space	1	1x	na
unknown	6	a6	-
space	1	1x	na
substrate.description	20	a20	-

All values not checked are 99.9

Ca_md Formats

Tract: C-a
 Monitoring Activity: AQUATIC
 Format: per81
 Period Covered: 4/28/81

Parameter	Length	Format	Units
space	1	lx	na
station.number	4	a4	-
space	1	lx	na
replicate.Designation	1	a1	-
space	1	lx	na
species.code	6	a6	-
space	1	lx	na
number.observed	3	a3	-
space	1	lx	na
date/samples	6	a6	mmddy
space	1	lx	na
sample.location	2	a2	-
space	1	lx	na
area.of.transect	5	f5.4	-
space	1	lx	na
number.of.drops	3	a3	-
space	1	lx	na
number.of.transects	2	a2	-
space	1	lx	na
cover.slip.area	5	a5	-
space	1	lx	na
number.of.drops/ml	3	a3	-
space	1	lx	na
number.of.replicates	1	a1	-
space	1	lx	na
sample.log.number	7	a7	-
space	1	lx	na
original.volume	3	a3	(ml)added
space	1	lx	na
concentrate.volume	3	a3	(ml)added

Ca_md Formats

Tract: C-a
 Monitoring Activity: AQUATIC
 Format: ben81
 Period Covered: 4/26/81

Parameter	Length	Format	Units
space	1	lx	na
station.number	4	a4	-
space	1	lx	na
species.code	5	a5	-
space	1	lx	na
number.observed-replicate.1	3	i3	-
space	1	lx	na
number.observed-replicate.2	3	i3	-
space	1	lx	na
number.observed-replicate.3	3	i3	-
space	1	lx	na
number.of.replicates	1	a1	-
space	1	lx	na
sample.date	6	a6	mmddy
space	1	lx	na
analysis.date	6	a6	mmddy
space	1	lx	na
sample.log.number	18	a18	-
space	1	lx	na
sample.size	3	a3	-

Ca_md Formats

Tract: C-a
 Monitoring Activity: Aquatic - Water Chemistry
 Format: j16.14
 Period Covered: 1982

Parameters	Col.	Format	Units
station	1	A4	
date	5	3I2	mo-da-yr
Ca	15	F5.1	mg/l
Mg	20	F5.1	mg/l
Na	25	F5.1	mg/l
K	30	F5.2	mg/l
Fe	35	F5.2	mg/l
HCO ₃	40	F5.1	mg/l
CO ₃	45	F5.1	mg/l
OH	50	F5.1	mg/l
SO ₄	55	F5.1	mg/l
Cl	60	F5.2	mg/l
TDS	65	F5.0	mg/l

Record 2

Parameters	Col.	Format	Units
TSS	15	F5.1	mg/l
ALK	20	F5.0	mg/l
HARD	25	F5.0	mg/l
FO ₄	30	F5.2	mg/l
NH ₃	35	F5.2	mg/l
NO ₃	40	F5.1	mg/l
F	45	F5.2	mg/l
Br	50	F6.1	mg/l
DOC	56	F4.1	-
AS	60	F5.2	mg/l
B	65	F6.3	mg/l

Record 3

Parameters	Col.	Format	Units
Hg	15	F5.3	mg/l
Mol	20	F5.1	mg/l
Se	25	F5.2	mg/l
SiO ₂	30	F5.1	mg/l
V	35	F5.1	mg/l
Al	40	F5.1	mg/l
Ba	45	F5.1	mg/l
Be	50	F5.2	mg/l
Bi	55	F5.2	mg/l
Cad	60	F5.2	mg/l
Cz	65	F6.3	mg/l

Record 4

Parameters	Col .	Format	Units
Cu	15	F5.2	mg/l
Ga	20	F5.1	mg/l
Ge	25	F5.1	mg/l
Pb	30	F5.2	mg/l
Li	35	F5.2	mg/l
Mn	40	F5.2	mg/l
Ni	45	F5.2	mg/l
Sr	50	F5.2	mg/l
Ti	55	F5.1	mg/l
Zn	60	F5.2	mg/l
Zr	65	F6.2	mg/l

Record 5

Parameters	Col .	Format	Units
Gross Alpha	15	F5.1	pc/l
Gross Beta	20	F5.1	pc/l
Cat/Anion Bal	25	F5.2	
Total Fe	30	F5.1	mg/l
IVO ₂	35	F5.1	mg/l
KJEL	40	F5.1	mg/l
ORTHOP	45	F5.2	mg/l

Ca_md Formats

Tract: C-a
 Monitoring Activity: Aquatic_Benthic Macroinvertebrate
 Format: j26_8
 Period Covered: 1979 - 1983

Parameter	Col.	Format	Units
date	1	3I2	
station	7	A4	
Cm (collection method)	11	F3.0	
CF (conversion factor)	14	F4.1	no./m ²
species	18	A6	
taxon	24	F3.0	
rep 1	27	F6.0	
rep 2	33	F6.0	
rep 3	39	F6.0	
rep 1A	45	F7.1	
rep 2A	52	F7.1	
rep 3A	59	F7.1	
density	66	F7.1	
season	73	A6	
rptyr	79	I4	

CM - collection methods codes
 01 - modified surber
 02 - Ekman dredge
 03 - D-frame
 04 - Modified Hess (elliptical)
 05 - Modified Hess (cylindrical)
 06 - Ellipse surber
 07 - Ellipse surber

Ca_md Formats

Tract: C-a
 Monitoring Activity: Aquatic_Stream Physical
 Format: j26_7
 Period Covered: 1974 - 1982

Parameter	Col.	Format	Units
station	1	A5	-
date	6	3I2	mo-da-yr
Samp_time	12	F5.0	
Air_temp	17	F6.0	degrees F
Est_wd	23	F6.0	
Est_ws	29	F6.0	
Cld_cov	35	F6.0	%
Water Temp_A	41	F4.1	degress C
Water Temp_B	45	F4.1	degress C
Water Temp_C	49	F4.1	degress C
Cond_A	53	F5.0	
Cond_B	58	F5.0	
Cond_C	63	F5.0	
Do_A	68	F3.1	
Do_B	71	F3.1	
Do_C	74	F3.1	
Ph_A	77	F3.1	
Ph_B	80	F3.1	
Ph_C	83	F3.1	

replaces j16.15

Ca_md Format

Tract: C-a
 Monitoring Activity: Aqua Periphyton
 Format: j16.17
 Period Covered: 1982

Parameter	Col.	Format	Units
date	1	3I2	mo-da-yr
station	7	A4	
species	11	A6	
count rep 1	17	I5	
count rep 2	22	I5	
count rep 3	27	I5	
count rep 4	32	I5	
count rep 5	37	I5	
count rep 6	42	I5	
MM ³	47	I4	units/mm ²
vol	51	I4	units/mm ²
DF	55	I4	units/mm ²
L	59	I4	units/mm ²
W	63	I4	units/mm ²
D	67	I4	units/mm ²
NS	71	I2	units/mm ²
Area	73	I7	units/mm ²

C-a Format

Tract: C-a
 Monitoring Activity: Aquatic - Physical
 Format: j16.15
 Period Covered: 1982

Parameters	Col.	Format	Units
Card 1			
station	1	A5	
sample date	6	I6	
sample time	12	I4	
air temp	16	I5	
Est WP	21	I5	
Est WS	26	I5	
% cloud cover	31	F3.2	
water temp rep 1	36	I3	
water temp rep 2	39	I3	
water temp rep 3	42	I4	
conductivity rep 1	46	I4	
conductivity rep 2	50	I4	
conductivity rep 3	54	I4	
dissolved oly rep 1	58	I3	
dissolved oly rep 2	61	I3	
dissolved oly rep 3	64	I3	
ph rep 1	67	I3	
ph rep 2	70	I3	
ph rep 3	73	I3	
calcu flow	76	I5	
Card 2			
visual turbidity	1	A10	
turbidity rep 1	11	I5	
turbidity	16	I5	
total alk rep 1	21	I4	
total alk rep 2	25	I4	
phenyl alk rep 1	29	I4	
phenyl alk rep 2	33	I4	
stream width	37	I4	meters
substrate composition index	41	I5	
flow index	46	I5	
% riparian cover	51	I5	
bank vegetation rating	56	I5	
bank stability rating	61	I5	
bank condition rating	66	I5	
stream stability rating	71	I5	
stream condition rating	76	I5	

Ca_md Format

Tract: C-a
 Monitoring Activity: Aquatic - Benthos
 Format: j16.16
 Period Covered: 1982

Parameter	Col.	Format	Units
date	1	3I2	
station	7	A4	
collection method	11	A2	
conversion factor	13	F4.1	no./m ²
species code	17	I6	
count rep 1	23	I5	
count rep 2	28	I5	
count rep 3	33	I5	
transect type	38	A1	

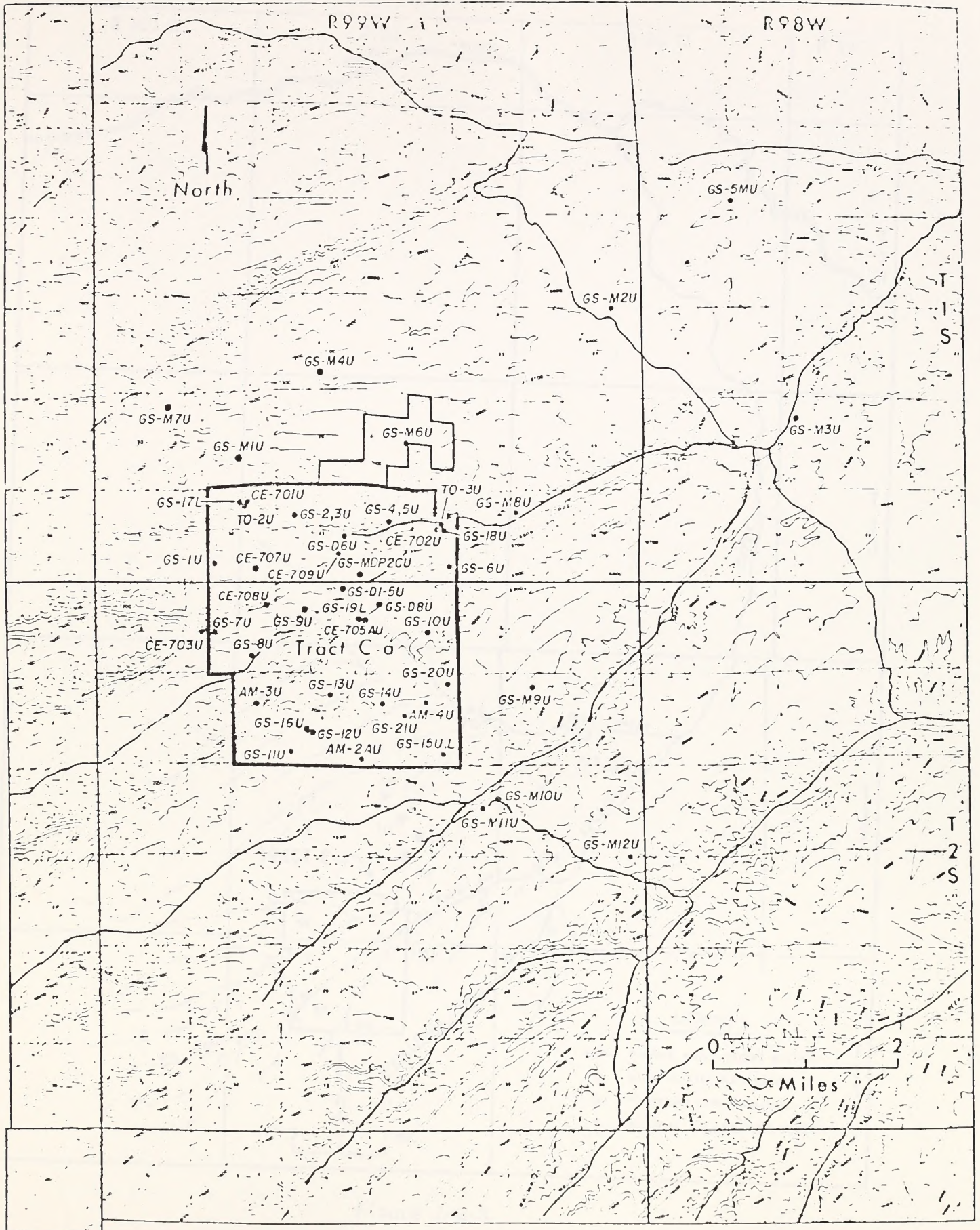


Figure 6-3
 Deep Aquifer Monitoring Stations

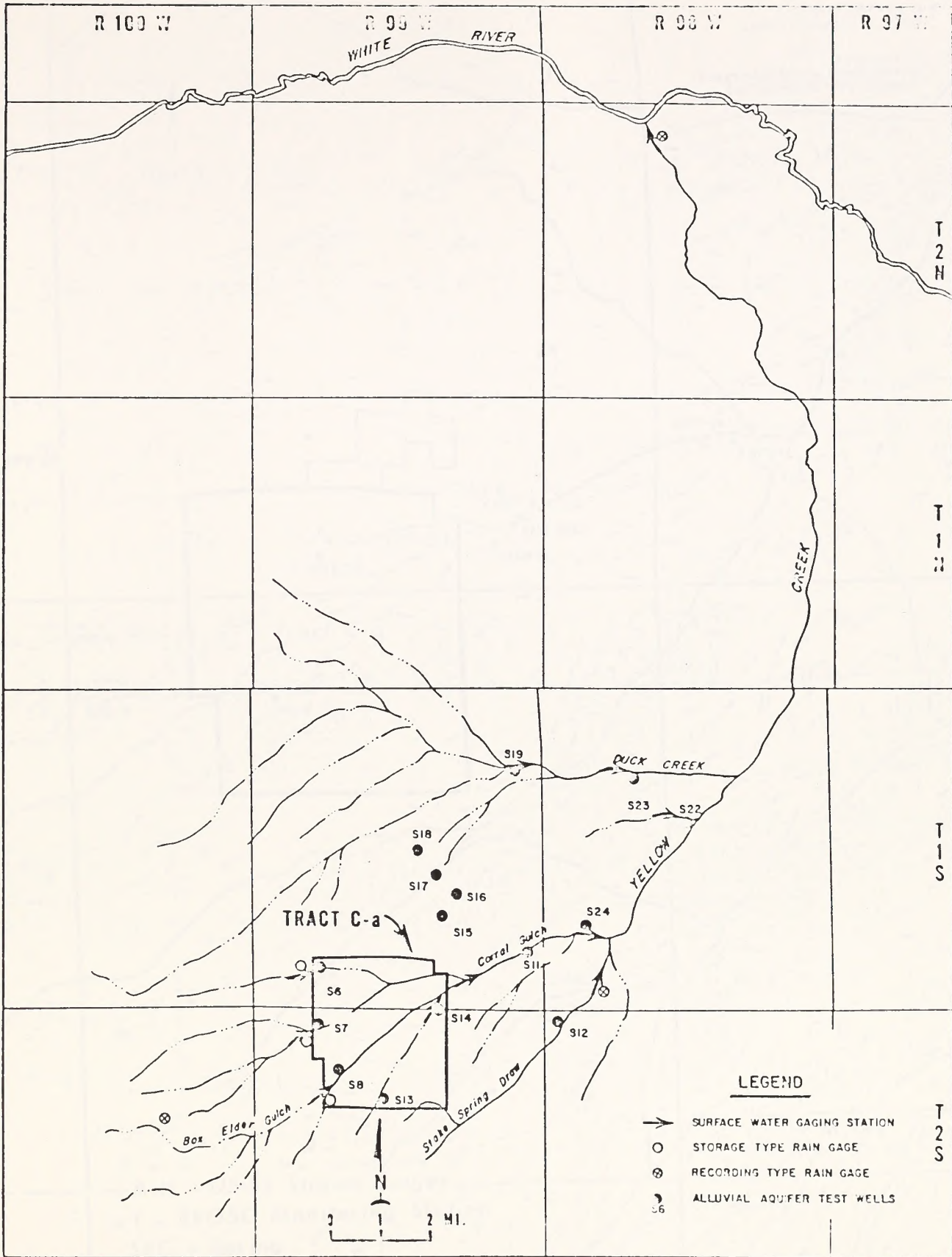


Figure 7-2-3
 YELLOW CREEK DRAINAGE BASIN

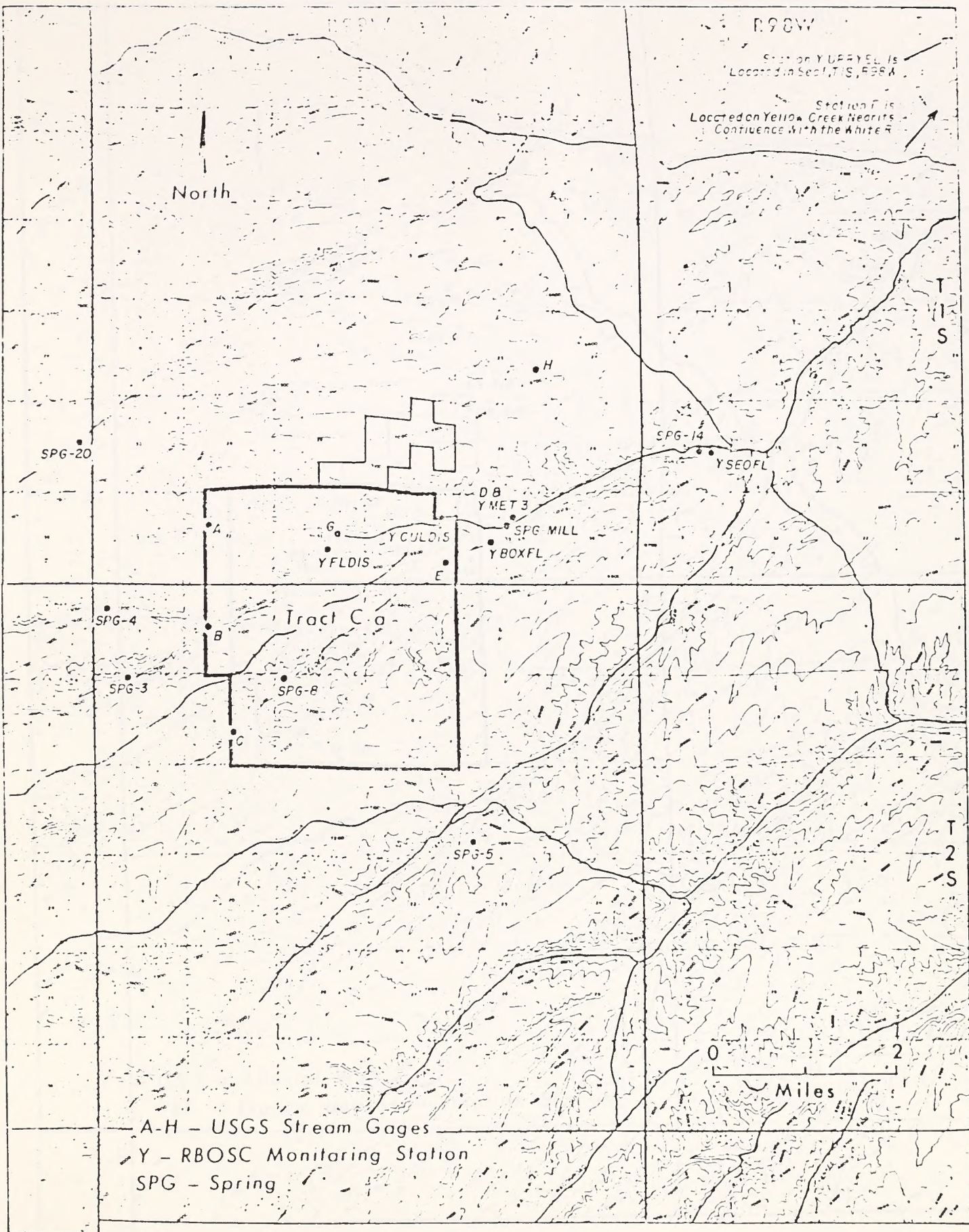


Figure 6-1
 Surface Discharge Monitoring Stations

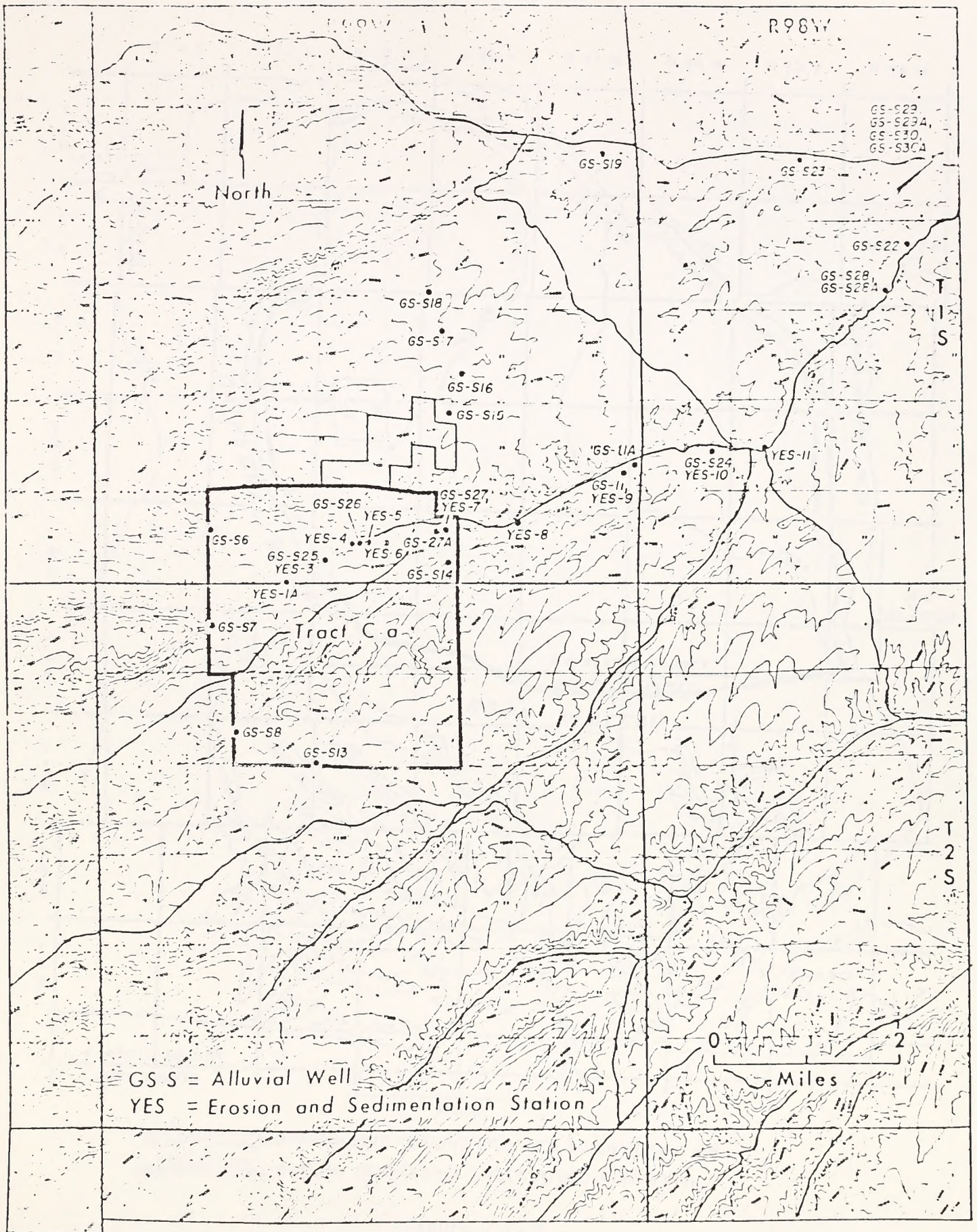


Figure 6-2
Alluvium and Erosion/Sedimentation Monitoring Stations

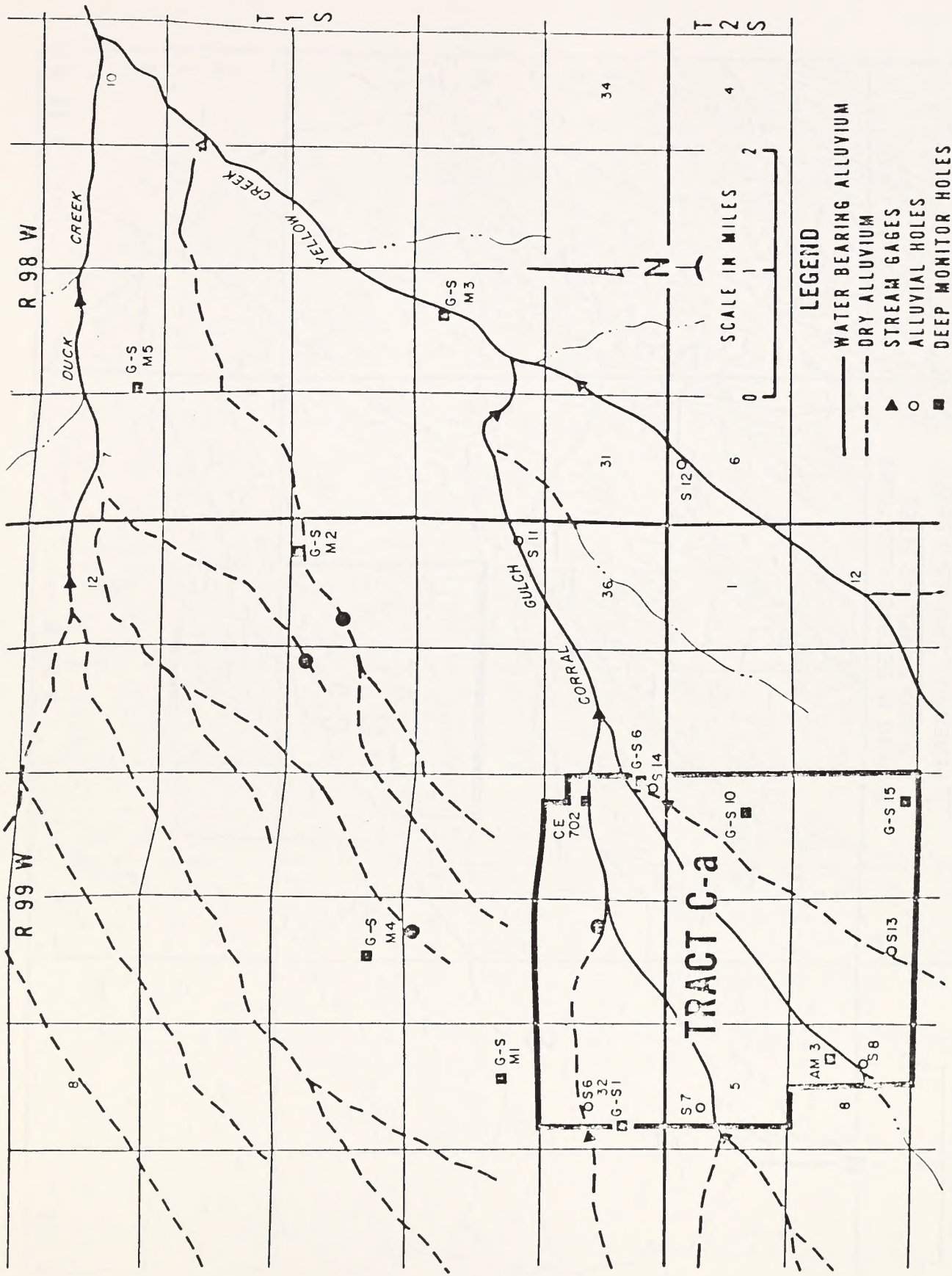


Figure 8-6-6
 LOCATIONS OF STREAM GAGING STATIONS AND WATER MONITORING HOLES

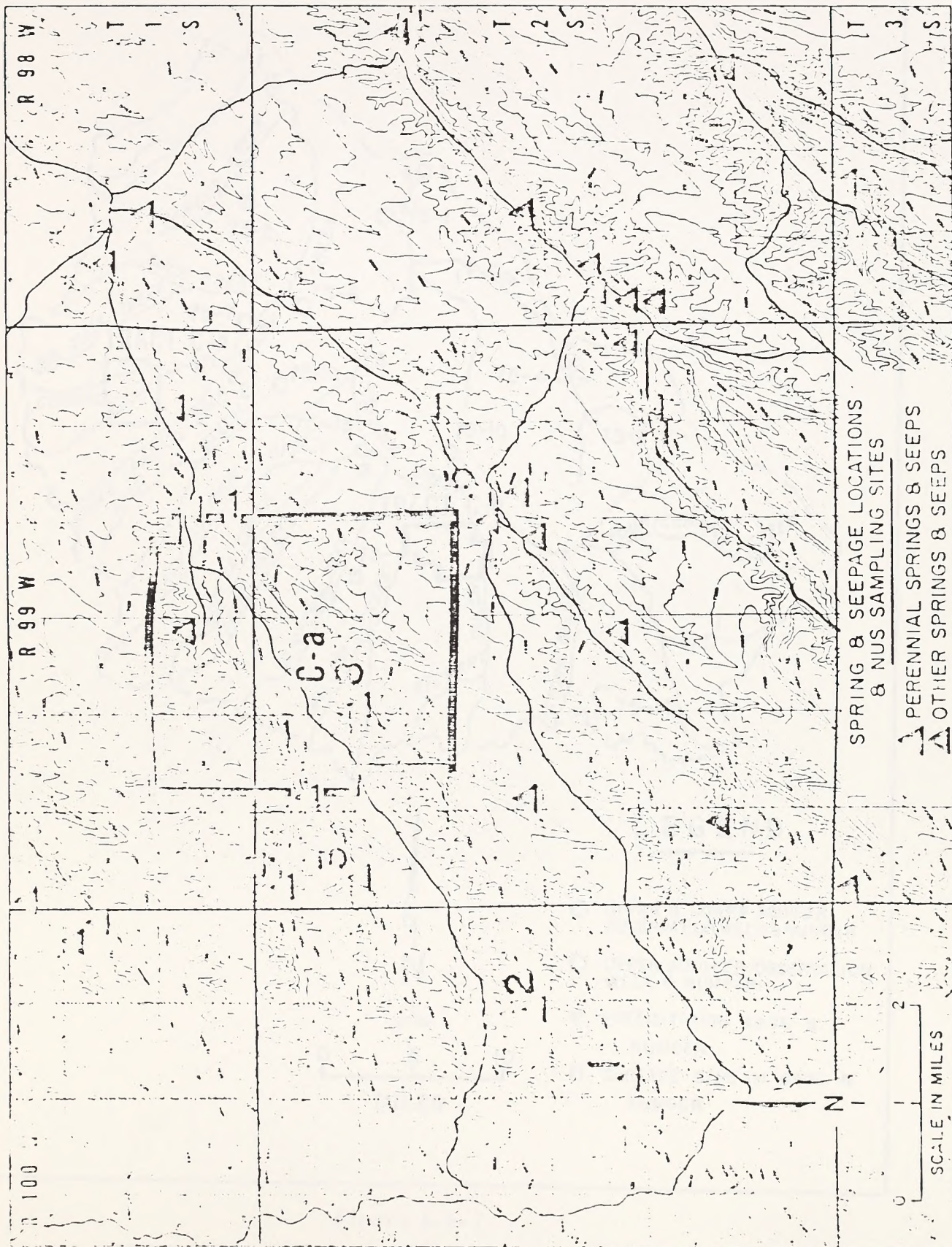
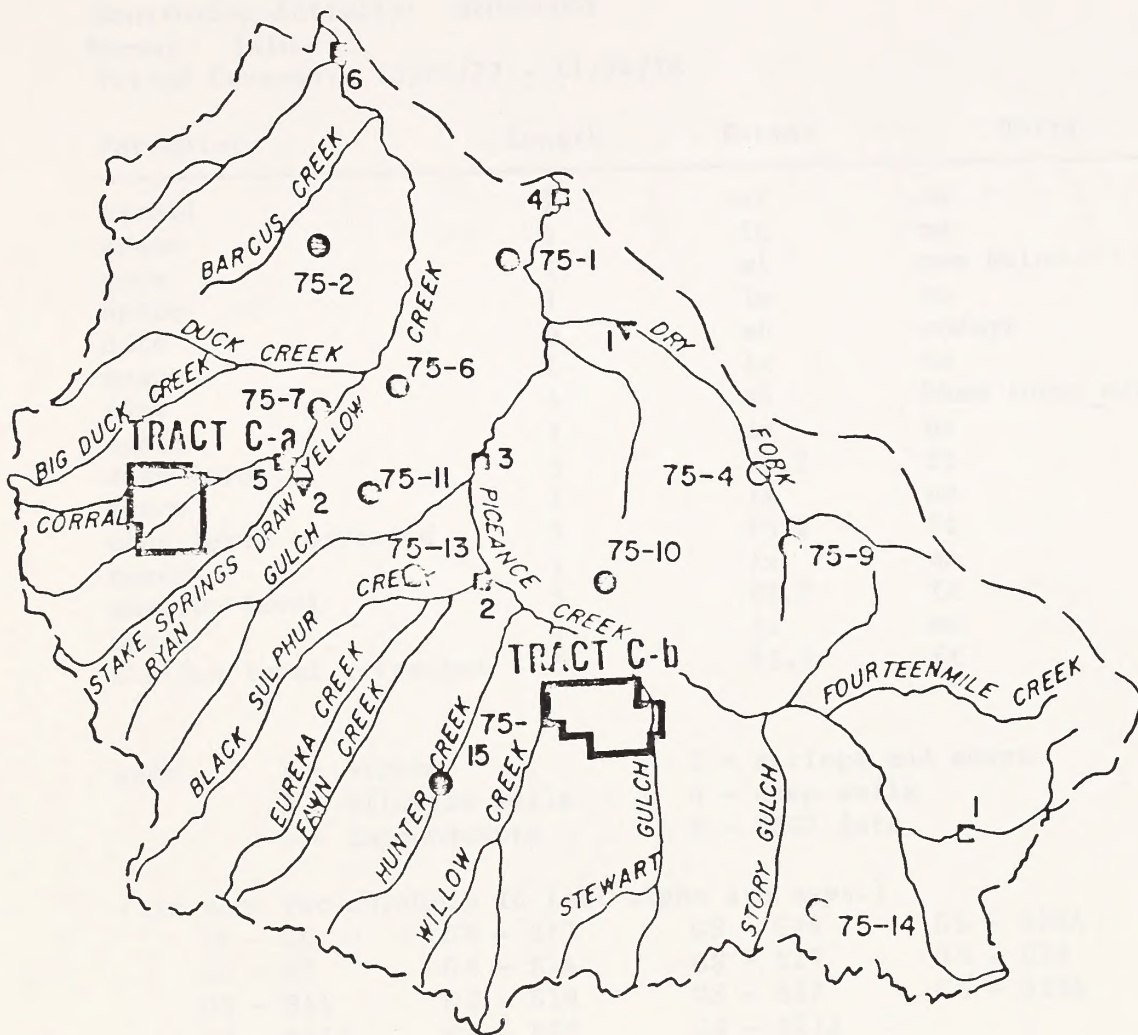


Figure 7-2-9
 LOCATIONS OF SPRINGS AND SEEPS IN THE STUDY AREA



LEGEND

- UPPER & LOWER AQUIFER OBSERVATION WELL & NUMBER
- UPPER AQUIFER OBSERVATION WELL & NUMBER
- ▽ PRECIPITATION GAGE & NUMBER
- SURFACE STREAM GAGE & NUMBER

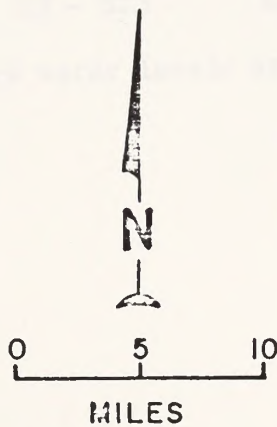


Figure 8-6-7

RBOSP WATER AUGMENTATION PLAN MONITORING PROGRAM

Ca_md Formats

Tract: C-a
 Monitoring Activity: HYDROLOGY
 Format: lalv
 Period Covered: 10/10/77 - 11/24/78

Parameter	Length	Format	Units
coreid	7	a7	na
space	1	lx	na
code	1	a1	see below
space	1	lx	na
date	6	a6	modayr
space	1	lx	na
time	4	a4	hhmm (hour_minute)_24_hour
space	1	lx	na
deep level	5	f5.2	ft
space	1	lx	na
deep level corrected	5	f5.2	ft
space	1	lx	na
shallow level	5	f5.2	ft
space	1	lx	na
shallow level corrected	5	f5.2	ft

code 1 - stream 2 - springs and seeps
 3 - alluvial wells 4 - deep wells
 5 - impoundments 6 - USGS data

File name for corehole id (all alpha are caps.)

GS - S6	GS - S13	GS - S24	GS - S28A
GS - S7	GS - S14	GS - S27	GS - S29
GS - S11	GS - S19	GS - S27	GS - S29A
GS - S11A	GS - S22	GS - S27A	
GS - S12	GS - S23	GS - S28	

Corrected values are water levels after instrument factors have been taken into account.

Ca_md Formats

Tract: C-a
 Monitoring Activity: HYDROLOGY
 Format: pmpda
 Period Covered: 05/24/78 - 11/17/78

Parameter	Length	Format	Units
coreid	10	a10	alphanumeric
space	1	lx	na
code	1	a1	integer - see below
space	1	lx	na
date	6	a6	mmddy
space	1	lx	na
time	4	a4	hhmm
space	1	lx	na
water.level	8	f8.3	ft
space	1	lx	na
temperature	8	f8.3	centigrade
space	1	lx	na
conductivity	8	f8.3	micro_mhos
space	1	lx	na
ph	8	f8.3	-

coreid S - shallow
 D - deep

code 1 - stream
 2 - springs and seeps
 3 - alluvial wells
 4 - deep wells
 5 - impoundments
 6 - USGS data

Ca_md Formats

Tract: C-a

Monitoring Activity: HYDROLOGY

Format: pmp28

Period Covered: 01/09/78 - 05/31/79

Parameter	Length	Format	Units
coreid	8	a8	-
space	1	lx	na
type.code	1	a1	-
space	1	lx	na
date	6	a6	mmddy
space	1	lx	na
time	4	a4	hhmm
space	1	lx	na
flow	8	f8.2	-
space	1	lx	na
conductivity	8	f8.2	micro_mhos
space	1	lx	na
ph	8	f8.2	-
space	1	lx	na
dissolved.oxygen.content	8	f8.2	%

The coreid is an alphanumeric string up to 8 characters in length. If the last character is a 'S', the data is for the shallow well location and if it is a 'D', the data is for the deep well location.

Ca_md Formats

Tract: C-a
 Monitoring Activity: HYDROLOGY
 Format: ldep
 Period Covered: 4/19/77 - 11/28/78

Parameter	Length	Format	Units
coreid	10	a10	alphanumeric
space	1	lx	na
code	1	a1	integer - see below
space	1	lx	na
date	6	a6	mmddy
space	1	lx	na
time	4	a4	hhmm
space	1	lx	na
deep.level	8	f8.3	ft
space	1	lx	na
deep.level.corrected	8	f8.3	ft
space	1	lx	na
shallow.level	8	f8.3	ft
space	1	lx	na
shallow.level.corrected	8	f8.3	ft

code 1 - stream
 2 - springs and seeps
 3 - alluvial wells
 4 - deep wells
 5 - impoundments
 6 - USGS data

Ca_md Formats

Tract: C-a
 Monitoring Activity: HYDROLOGY
 Format: erod28
 Period Covered: 12/08/78 - 5/30/79

Parameter	Length	Format	Units
Record 1			
space	1	1x	na
station.id	2	a2	-
space	2	2x	na
time	4	a4	hhmm
space	2	2x	na
date	6	a6	mmddyy
space	2	2x	na
flow	20	a20	alpha.description
space	2	2x	na
height	4	f4.2	ft
space	2	2x	na
length	5	f5.2	ft
space	2	2x	na
number	3	i3	number.of values to follow

Record 2

values	6	f6.2	-
values	6	f6.2	-

etc. until number of values has been read

Ca_md Formats

Tract: C-a
 Monitoring Activity: HYDROLOGY
 Format: erodl
 Period Covered: 6/12/78 - 11/17/78

Parameter	Length	Format	Units
Record 1			
space	1	1x	na
station.id	2	a2	-
space	2	?x	na
time	4	a4	hhmm
space	2	2x	na
date	6	a6	mmddy
space	2	2x	na
flow	20	a20	alpha.description
space	2	2x	na
height	4	f4.2	ft
space	2	2x	na
length	5	f5.2	ft
space	2	2x	na
number	3	i3	number.of.values.to.follow
Record 2			
values	6	f6.2	-
values	6	f6.2	-
etc. until number of values has been reached.			

Ca_md Formats

Tract: C-a
 Monitoring Activity: HYDROLOGY
 Format: usgsen
 Period Covered: 6/76 - 5/78

Parameter	Length	Format	Units
space	1	1x	na
station	8	a8	numeric
space	2	2x	na
latitude	8	f8.4	degrees
space	2	2x	na
longitude	8	f8.4	degrees
space	2	2x	na
month	2	i2	numeric
space	2	2x	na
year	4	a4	4.digit.year
space	2	2x	na
number.card	2	i2	days.of.month.recorded
space	2	2x	na
temperature	5	i5	-
space	2	2x	na
type	5	i5	type.of.data.max.min.mean
space	2	2x	na
value	7	f7.2	
etc. for 7 more values			

See WATSTOR book 1 for more detail.

Ca_md Formats

Tract: C-a

Monitoring Activity: HYDROLOGY

Format: usgs

Period Covered: 6/24/76-4/24/79

Parameter	Length	Format	Units
space	1	1x	na
station	8	a8	numeric
space	2	2x	na
latitude	8	f8.4	degrees.latitude
space	2	2x	na
longitude	8	f8.4	degrees.longitude
space	2	2x	na
date	6	a6	mmddy
space	2	2x	na
time	4	a4	hhmm
space	2	2x	na
code	5	a5	-
space	2	2x	na
value	10	e10.4	-
space	2	2x	na
code	5	a5	-
space	2	2x	na
value	10	e10.4	-
space	2	2x	na
code	5	a5	-
space	2	2x	na
value	10	e10.4	-
space	2	2x	na
code	5	a5	-
space	2	2x	na
value	10	e10.4	-

See WATSTOR book 3 for code descriptions.

Ca_md Formats

Tract: C-a
 Monitoring Activity: HYDROLOGY
 Format: seep
 Period Covered: 10/10/77 - 9/21/78

Parameter	Length	Format	Units
springs.and.seeps.id	10	a10	alphanumeric
space	1	lx	na
code	1	a1	integer - see below
space	1	lx	na
date	6	a6	mmddy
space	1	lx	na
time	4	a4	hhmm
space	1	lx	na
temperature	8	f8.3	centigrade
space	1	lx	na
conductivity	8	f8.3	micro-mhos
space	1	lx	na
ph	8	f8.3	-
space	1	lx	na
doc - dissolved oxygen content	8	f8.3	%

code 1 - stream
 2 - springs and seeps
 3 - alluvial wells
 4 - deep wells
 5 - impoundments
 6 - USGS data

Ca_md Formats

Tract: C-a
 Monitoring Activity: HYDROLOGY
 Format: stream
 Period Covered: 02/03/78-11/10/78

Parameter	Length	Format	Units
stream.id	10	a10	alphanumeric
space	1	lx	na
code	1	a1	integer - see below
space	1	lx	na
date	6	a6	mmddy
space	1	lx	na
time	4	a4	hhmm
space	1	lx	na
temperature	8	f8.3	centigrade
space	1	lx	na
conductivity	8	f8.3	micro-mhos
space	1	lx	na
ph	8	f8.3	-
space	1	lx	na
doc - dissolved oxygen content	8	f8.3	%

- code
- 1 - stream
 - 2 - springs and seeps
 - 3 - alluvial wells
 - 4 - deep wells
 - 5 - impoundments
 - 6 - USGS data

C-a_md Formats

Tract: C-a
 Monitoring Activities: Hydrology
 Format: w82
 Period Covered: 1/1/82 - 12/14/82

Parameters	Col.	Format	Units
station	1	A15	alpha
type	16	A4	alpha
date	20	A6	mmddyy
time	26	A4	hhmm
depth	30	F6.1	ft
temperature	36	F6.1	centigrade
specific conductance	42	F6.0	micro-mhos
ph	48	F4.1	
flow	52	F6.1	
total suspended solids	58	I4	
pressure	62	I5	
hole	67	A5	alpha

field filled with 9's means no data recorded -
 station, type, date or time filled with 0's means
 no designation recorded -
 hole will be XXX if depth has value
 otherwise will contain dry, ice or iced

Ca Formats

Tract: C-a
 Monitoring Activity: Water Chemistry
 Format: dmwq81, spwq81
 Period Covered: 79/81, 79/81

Parameter	Col.	Format	Units
date	2	3I2	mo-da-yr
idSTA, station (A3, A8)	8	A8	-
temp	23	F6.1	degrees C
ph	29	F6.1	standard units
spc_cond	35	F6.0	micro_umhos/cm
Ca	41	F6.0	mg/l
Mg	47	F6.0	mg/l
Na	53	F6.0	mg/l
K	59	F6.2	mg/l
Fe	68	F6.2	mg/l
HCO3	74	F7.2	mg/l

Record 2

Parameter	Col.	Format	Units
CO3	1	F6.2	mg/l
OH	7	F6.2	mg/l
SO4	13	F6.0	mg/l
Cl	19	F7.2	mg/l
TSS	26	F6.0	mg/l
TCN	32	F6.2	
TSO4	38	F6.2	
TDS	44	F6.0	mg/l
ALK	50	F6.0	mg/l
Hard	56	F6.0	mg/l
ORTHOP	62	F6.2	mg/l
PO4	68	F6.2	mg/l

-99. no data taken only used to make data base similar.

Record 3

Parameter	Col.	Format	Units
KJEL	1	F6.1	mg/l
NH3	7	F6.2	mg/l
NO2	13	F6.3	mg/l
NO3	19	F6.3	mg/l
F	25	F6.2	mg/l
S	31	F6.1	mg/l
SO3	37	F6.0	mg/l
Br	43	F6.1	mg/l
TOC	49	F6.0	mg/l
DOC	55	F6.0	mg/l
Cn	61	F6.3	mg/l
PHENOL	67	F6.2	mg/l

Record 4

Parameter	Col.	Format	Units
OG	1	F6.0	mg/l
BOD	7	F6.0	-
COD	13	F6.0	-
Al	19	F6.1	mg/l
Sb	25	F6.2	
As	31	F6.2	mg/l
Ba	37	F6.1	mg/l
Be	43	F6.2	mg/l
Bi	49	F6.2	mg/l
B	55	F6.2	mg/l
Cd	61	F6.1	mg/l
Cr	67	F6.2	mg/l

Record 5

Parameter	Col.	Format	Units
Cu	1	F6.3	mg/l
Ga	7	F6.1	mg/l
Ge	13	F6.1	mg/l
Pb	19	F6.3	mg/l
Li	25	F6.2	mg/l
Mn	31	F6.2	mg/l
Hg	37	F6.2	mg/l
MOL	43	F6.1	mg/l
Ni	49	F7.2	mg/l
Se	55	F6.2	mg/l
SiO2	61	F6.0	mg/l
Ag	67	F6.1	mg/l

Record 6

Parameter	Col.	Format	Units
Sr	1	F6.2	mg/l
Sn	7	F6.2	mg/l
Ti	13	F6.1	mg/l
W	19	F6.2	mg/l
V	25	F6.1	mg/l
Zn	31	F6.2	mg/l
Zr	37	F6.0	mg/l
Alpha	43	F6.0	p Ci/l
Beta	49	F6.0	

Record 7

Parameter	Col.	Format	Units
depth	1	F9.2	ft
fecal coliform	10	F9.2	no/100ml
MBAS	19	F9.2	mg/l
ST	28	F9.2	mg/l
total coliform	37	F9.2	no/100ml
Spg	46	F9.2	
NH3N	55	F9.2	mg/l
aquifer	64	F9.2	

C-a_md Formats

Tract: C-a
 Monitoring Activity: Hydrology
 Format: alph81, upph81_md, alph81, unph81
 Period Covered: 1979 - 1980
 1975 - 1980
 1975 - 1976
 1980 2 holes 2 months

Record 1

Parameter	Col.	Format	Units
sta	1	A14	
date	15	I6	mo-da-yr
type	21	A5	
con specific conductance	26	F9.2	micro_umhos/cm
flow	35	F9.2	-
other	44	F9.2	spm
ph	53	F9.2	-
rptyr (report year)	62	F9.2	std. units
temp	71	F9.2	centigrade

Record 2

Parameter	Col.	Format	Units
time	1	F9.2	
TSS	10	F9.2	mg/l
wl	19	F9.2	ft
dep	28	A1	
depth	29	A8	ft
plus	37	A1	
sp_cond	38	A10	micro_umhos
status	48	A3	
X	51	A1	
Y	52	A1	
Z	53	A1	
dam	54	A1	

no data -99.0

C-a_md Formats

Tract: C-a

Monitoring Activity: Hydrology (field hydrology)

Format: feld81, j26_1, j48_17, j48_14

Period Covered: 1981, 1983, 1984, 1984

Parameter	Col.	Format	Units
type	2	A4	
station	7	A15	
date	23	I6	mo-da-yr
wl	30	F6.1	ft
ph	36	F6.1	std. units
sp_cond	42	F6.0	umhos/cm
temp	48	F6.1	centigrade
flow	54	F6.1	gpm
TSS	60	F6.1	mg/l
pressure (only on jkc048_17md)	66	F6.1	

C-a_md Formats

Tract: C-a

Monitoring Activity: Hydrology (operation physical)

Format: dmph81

Period Covered: 1980 only

Parameter	Col.	Format	Units
station	2	A15	
typsta	18	A5	
status	25	A1	
date	27	3I2	mo-da-yr
cond	33	F8.2	micro_umhos
ph	41	F8.2	std. units
q	49	F8.2	gpm
rptyr	57	F8.2	
TDS	65	F8.2	mg/l
temp	73	F8.2	centigrade
time	81	F8.2	
TSS	89	F8.2	mg/l
d	97	A1	
dam	98	A1	
plus	99	A1	
spg	100	A3	

C-a_md Formats

Tract: C-a

Monitoring Activity: Hydrology (Springs & Seeps)

Format: seep81

Period Covered: 10/77 - 5/29/80

Parameter	Col.	Format	Units
station	1	A8	N/A
date	9	3I2	mo-da-yr
con (specific conductance)	15	F8.2	micro_umhos
ph	23	F8.2	std. units
Q	31	F8.2	gpm
rptyr	39	F8.2	-
TDS	47	F8.2	mg/l
temp	55	F8.2	centigrade
time	63	F8.2	-
TSS	71	F8.2	mg/l

C-a_md Formats

Tract: C-a
 Monitoring Activity: Hydrology (USGS gaging stat)
 Format: usgs81
 Period Covered: 3/74 -

Parameter	Col.	Format	Units
station	2	A7	
date	10	A6	mo-da-yr
TType	17	A1	
flow	18	F9.3	CFS
turb 70 (method 1)	27	F9.3	NTU
turb 76 (method 2)	36	F9.3	NTU
color	45	F9.3	pt-co
sp_cond	54	F9.3	umhos
Do	63	F9.3	mg/l
BOD	72	F9.3	mg/l
COD	81	F9.3	mg/l
ph	90	F9.3	standard units
CO ₂	99	F9.3	mg/l
alk	108	F9.3	mg/l
HCO ₃	117	F9.3	mg/l
CO ₃	126	F9.3	mg/l
oil'550 (oil & grease method 1)	135	F9.3	mg/l
oil'556 (oil & grease method 2)	144	F9.3	mg/l
N-tot	153	F9.3	mg/l
N-DIS	162	F9.3	mg/l
torg_(N)	171	F9.3	mg/l
org_(N)	180	F9.3	mg/l
NH ₃ _(N)	189	F9.3	mg/l
TNH ₃ _(N)	198	F9.3	mg/l
NO ₂ _DIS-(N)	207	F9.3	mg/l
NO ₃ _DIS-(N)	216	F9.3	mg/l
KJEL 623	225	F9.3	mg/l
KJEL 625	234	F9.3	mg/l
TNO ₂ + NO ₃ -(N)	243	F9.3	mg/l
NO ₂ + NO ₃ -(N)	252	F9.3	mg/l
TP04 - (P)	261	F9.3	mg/l
O P04	270	F9.3	mg/l
TOT_P	279	F9.3	mg/l
DIS_P	288	F9.3	mg/l
DORTHOP	297	F9.3	mg/l
TOC	306	F9.3	mg/l
DOC	315	F9.3	mg/l
SUSP_OC (suspended organic carbon)	324	F9.3	mg/l
cyanide	333	F9.3	mg/l
THS (total sulfide)	342	F9.3	mg/l
HS (sulfide)	351	F9.3	mg/l
T_hard	360	F9.3	mg/l
NC_hard	369	F9.3	mg/l
Ca	378	F9.3	mg/l

Parameter	Col.	Format	Units
Mg	387	F9.3	mg/l
Na	396	F9.3	mg/l
SAR	405	F9.3	no units
PER Na	414	F9.3	%
Na + K	423	F9.3	mg/l
K	432	F9.3	mg/l
CL	441	F9.3	mg/l
S04	450	F9.3	mg/l
F	459	F9.3	mg/l
SI04	468	F9.3	mg/l
As	477	F9.3	ug/l
Ba	486	F9.3	ug/l
Be	495	F9.3	ug/l
Bi	504	F9.3	ug/l
B	513	F9.3	ug/l
Cd	522	F9.3	ug/l
Cr	531	F9.3	ug/l
Cu	540	F9.3	ug/l
Fe	549	F9.3	ug/l
Pb	558	F9.3	ug/l
Mn	567	F9.3	ug/l
Mo	576	F9.3	ug/l
Ni	585	F9.3	ug/l
Ag	594	F9.3	ug/l
V	603	F9.3	ug/l
Zn	612	F9.3	ug/l
Sn	621	F9.3	ug/l
Al	630	F9.3	ug/l
Ga	639	F9.3	ug/l
Ge	648	F9.3	ug/l
Li	657	F9.3	ug/l
Se	666	F9.3	ug/l
Ti	675	F9.3	ug/l
Zr	684	F9.3	ug/l
ODOR	693	F9.3	mg/l
T Col I	702	F9.3	col./100ml
F Col I	711	F9.3	col./100ml
Phenols	720	F9.3	ug/l
PCB	729	F9.3	ug/l
TDS	738	F9.3	sum of solids
TDS 2	747	F9.3	tons/days
TDS 3	756	F9.3	tons/days
NH3	765	F9.3	mg/l
NO3	774	F9.3	mg/l
NO2	783	F9.3	mg/l
Br	792	F9.3	ug/l
Hg	801	F9.3	ug/l
Sr	810	F9.3	ug/l
QM (Mean discharge)	819	F9.3	CFS
THI (Temp Hi)	828	F9.3	deg C
TLOW (Temp Low)	837	F9.3	deg C
TM (Temp Mean)	846	F9.3	deg C
CHI (Specific conductance - Hi)	855	F9.3	umhos/cm
CLOW (Specific conductance - Low)	864	F9.3	umhos/cm
CM (Specific conductance - Mean)	873	F9.3	umhos/cm

Parameter	Col.	Format	Units
SSM (suspended solid - concentration)	882	F9.3	mg/l
SLM (suspended solid - load)	891	F9.3	tons/ac - ft

no data 999.99

C-a_md Formats

Tract: C-a

Monitoring Activity: Hydrology (erosion & sedimentation)

Format: erod81

Period Covered:

Parameter	Col.	Format	Units
station	2	A6	
date	8	A6	mo-da-yr
type	14	A1	
(D1 - D26)	15	26*F3.2	ft. datum line
(D27 - D52)	93	26*F3.2	ft. datum line
(D53 - D78)	171	26*F3.2	ft. datum line
(D79 - D104)	249	26*F3.2	ft. datum line
(D105 - D130)	327	26*F3.2	ft. datum line
(D131 - D156)	405	26*F3.2	ft. datum line
(D157 - D160)	483	3*F3.2	ft. datum line

C-a_md Formats

Tract: C-a
 Monitoring Activity: Hydrology (operations data set)
 Format: dams81, j26 2
 Period Covered: 1979 - 1981, 1983

Parameter	Col.	Format	Units
type	2	A4	-
station	7	A15	-
date	23	A6	mo-da-yr
depth	29	F6.1	ft
ph	35	F6.1	-
conductance	41	F6.0	micro_umhos/cm
temperature	47	F6.1	centigrade
TSS	53	F6.1	mg/l
pressure	59	F6.1	psi
flow	65	F6.1	gpm
time			

flow added in 1983, 1982
 time on 1982 data

C-a_md Formats

Tract: C-a
 Monitoring Activity: Hydrology
 Format: usgm81
 Period covered: 9/74 - 9/79

Parameter	Col.	Format	Units
sta	2	F8.2	-
date	10	3I2	mo-da-yr
chi specific conductance hi	16	F8.2	microhos/cm
clow specific conductance low	24	F8.2	microhos/cm
cm specific conductance mean	32	F8.2	microhos/cm
idm	40	E10.3	
qm mean discharge	50	F8.2	cfs
slm suspended solids - load	58	F8.2	tons/ac-ft
ssm suspended solids - concentration	66	F8.2	mg/l
thi temperature hi	74	F8.2	°c
tlow temperature low	82	F8.2	°c
tm temperature mean	90	F8.2	°c
wyr water year	98	F8.2	

C-a_md Formats

Tract: C-a
 Monitoring Activity: Hydrology
 Format: usgw81
 Period Covered: 3/74 - 9/18/80

Parameters	Col.	Format	Units
station	2	A20	
date	23	3I2	mo-da-yr
A	30	F8.2	
Ag	38	F8.2	ug/l
Al	46	F8.2	ug/l
aldrin	54	F8.2	ug/l
alk	62	F8.2	mg/l
alpha 15 gross alpha, dissolved	70	F8.2	pCi/l asu
alpha 16 "" "",total suspended	78	F8.2	pCi/l asu
alpha 30 "" "", dissolved	86	F8.2	mg/l
alpha 40 "" "", total suspended	94	F8.2	mg/l asu
As	102	F8.2	ug/l
B	110	F8.2	ug/l
Ba	118	F8.2	ug/l
Be	126	F8.2	ug/l
benzhex	134	F8.2	
beta 15 gross alpha, dissolved	142	F8.2	pCi/l asu
beta 16 "" "",total suspended	150	F8.2	pCi/l asu
beta 50 "" "", dissolved	158	F8.2	mg/l
beta 60 "" "", total suspended	166	F8.2	mg/l asu
Bi	174	F8.2	ug/l
BOD	182	F8.2	mg/l
Br	190	F8.2	ug/l
C	198	F8.2	
Ca	206	F8.2	ug/l
Cd	214	F8.2	ug/l
chlordan	222	F8.2	mg/l
C1	230	F8.2	mg/l
CO ₂	238	F8.2	mg/l
CO ₃	246	F8.2	mg/l
COD	254	F8.2	mg/l
color	262	F8.2	plat.cob.units
Cr	270	F8.2	ug/l
Cu	278	F8.2	ug/l
cyanide	286	F8.2	mg/l
D	294	F8.2	
ddd	302	F8.2	ug/l
dde	310	F8.2	ug/l
ddt	318	F8.2	ug/l
diazinon	326	F8.2	ug/l
dieldron	334	F8.2	ug/l
dis_p	342	F8.2	mg/l
DO	350	F8.2	mg/l
DOC	358	F8.2	mg/l
dorthrop dissolved ortho-P	366	F8.2	mg/l
endosulfan	374	F8.2	ug/l

Parameter	Col.	Format	Units
endrin	382	F8.2	ug/l
ethion	390	F8.2	ug/l
F	398	F8.2	mg/l
F_coli	406	F8.2	col./100ml
F_strep	414	F8.2	col./100ml
FC31625 fecal coli,method 31625	422	F8.2	col./100ml
Fe	430	F8.2	ug/l
flow	438	F8.2	cfs
Ga	446	F8.2	ug/l
Ge	454	F8.2	ug/l
hard-total	462	F8.2	mg/l
HCO3	470	F8.2	mg/l
Heptachlor	478	F8.2	ug/l
Heptepx	486	F8.2	ug/l
Hg	494	F8.2	ug/l
Hs (sulfide)	502	F8.2	mg/l
K	510	F8.2	mg/l
KJEL623 method	518	F8.2	mg/l
KJEL625 method	526	F8.2	mg/l
Li	534	F8.2	ug/l
M_Para (methyl paration)	542	F8.2	ug/l
M_Trith (methyl trithion)	550	F8.2	ug/l
malathion	558	F8.2	ug/l
MBAS	566	F8.2	mg/l
Mg	574	F8.2	mg/l
mirey	582	F8.2	ug/l
Mn	590	F8.2	ug/l
mol	598	F8.2	ug/l
N_DIS	606	F8.2	mg/l
N_tot	614	F8.2	mg/l
Na	622	F8.2	mg/l
Na+K	630	F8.2	mg/l
Nc_Hard non-carb-hardness	638	F8.2	mg/l
NH3	646	F8.2	mg/l
NH3_N	654	F8.2	mg/l
Ni	662	F8.2	ug/l
NO2	670	F8.2	mg/l
NO3	678	F8.2	mg/l
NO2_DIS	686	F8.2	mg/l
NO2_NO3	694	F8.2	mg/l
NO3_DIS	702	F8.2	mg/l
O_PO4	710	F8.2	mg/l
ODOR	718	F8.2	mg/l
OIL 550 oil & grease method	726	F8.2	mg/l
OIL 556 oil & grease method	734	F8.2	mg/l
ORG_N	742	F8.2	mg/l
Parathion	750	F8.2	ug/l
Pb	758	F8.2	ug/l
PCB	766	F8.2	ug/l
PER_NA percent sodium	774	F8.2	%
Perthane	782	F8.2	ug/l
Pest	790	F8.2	
ph	798	F8.2	std. units

Parameter	Col.	Format	Units
phenol	806	F8.2	ug/l
P2_4_D	814	F8.2	
P2_4_5T	822	F8.2	
RA_9510 method radium 226	830	F8.2	pCi/l
RA_9511 method radium 226	838	F8.2	pCi/l
SAR	846	F8.2	ho units
Se	854	F8.2	ug/l
SILVEX	862	F8.2	ug/l
SI02	870	F8.2	mg/l
Sn	878	F8.2	ug/l
SO ₄	886	F8.2	ug/l
Sp_Cond	894	F8.2	microuhos/cm
Sr	902	F8.2	ug/l
SUSP_OC suspended organic carbon	910	F8.2	mg/l
T_COL I	918	F8.2	colonies/100ml
T_HARD	926	F8.2	mg/l
TC total carbon	934	F8.2	mg/l
TDS sum of solids	942	F8.2	
TDS 2 tons per day	950	F8.2	T/day
TDS 3 tons per acre foot	958	F8.2	T/ac ft
temp	966	F8.2	deg C
THS total sulfide	974	F8.2	mg/l
Ti	982	F8.2	ug/l
TN_NO3 total N as NO3	990	F8.2	mg/l
TNH3 N total NH3 as N	998	F8.2	mg/l
NO2 + NO3	1006	F8.2	mg/l
TOC	1014	F8.2	mg/l
TORG_N	1022	F8.2	mg/l
TOT_P	1030	F8.2	mg/l
TOT_P2	1038	F8.2	mg/l
TOX_AP toxaphene	1046	F8.2	ug/l
TPO4	1054	F8.2	mg/l
TRITH (tritium)	1062	F8.2	ug/l
TURB 70 method	1070	F8.2	NTU
TURB 76 method	1078	F8.2	NTU
U	1086	F8.2	ug/l
V	1094	F8.2	ug/l
WYR (water year)	1102	F8.2	
X	1110	F8.2	
Y	1118	F8.2	
Z	1126	F8.2	
Zn	1134	F8.2	ug/l
Zr	1142	F8.2	ug/l

Ca Formats

Tract: C-a
 Monitoring Activity: Water Chemistry
 Format: alwq81, upwq81, unwq81, lwq81
 Period Covered: 75/81, 75/81, 75/81, 75/81

Parameter	Col.	Format	Units
date	2	3I2	mo-da-yr
idSTA, station (A3, A8)	8	A8	-
temp	23	F6.1	degrees C
ph	29	F6.1	standard units
spc_cond	35	F6.0	micro_umhos/cm
Ca	41	F6.0	mg/l
Mg	47	F6.0	mg/l
Na	53	F6.0	mg/l
K	59	F6.2	mg/l
Fe	68	F6.2	mg/l
HCO3	74	F8.2	mg/l

Record 2

Parameter	Col.	Format	Units
CO3	1	F7.2	mg/l
OH	7	F6.2	mg/l
SO4	13	F6.0	mg/l
Cl	19	F7.2	mg/l
TSS	26	F6.0	mg/l
TCN	32	F6.2	
TSO4	38	F6.2	
TDS	44	F6.0	mg/l
ALK	50	F6.0	mg/l
Hard	56	F6.0	mg/l
ORTHOP	62	F6.2	mg/l
PO4	68	F6.2	mg/l

-99. no data taken only used to make data base similar.

Record 3

Parameter	Col .	Format	Units
KJEL	1	F6.1	mg/l
NH3	7	F6.2	mg/l
NO2	13	F7.3	mg/l
NO3	19	F7.3	mg/l
F	25	F6.2	mg/l
S	31	F6.1	mg/l
SO3	37	F6.0	mg/l
Br	43	F6.1	mg/l
TOC	49	F6.0	mg/l
DOC	55	F6.0	mg/l
Cn	61	F7.3	mg/l
PHENOL	67	F6.2	mg/l

Record 4

Parameter	Col .	Format	Units
OG	1	F6.0	mg/l
BOD	7	F6.0	-
COD	13	F6.0	-
Al	19	F6.1	mg/l
Sb	25	F6.2	
As	31	F6.2	mg/l
Ba	37	F6.1	mg/l
Be	43	F6.2	mg/l
Bi	49	F6.2	mg/l
B	55	F6.2	mg/l
Cd	61	F6.1	mg/l
Cr	67	F6.2	mg/l

Record 5

Parameter	Col .	Format	Units
Cu	1	F7.3	mg/l
Ga	7	F6.1	mg/l
Ge	13	F6.1	mg/l
Pb	19	F7.3	mg/l
Li	25	F6.2	mg/l
Mn	31	F6.2	mg/l
Hg	37	F6.2	mg/l
MOL	43	F6.1	mg/l
Ni	49	F7.2	mg/l
Se	55	F6.2	mg/l
SiO2	61	F6.0	mg/l
Ag	67	F6.1	mg/l

Record 6

Parameter	Col .	Format	Units
Sr	1	F6.2	mg/l
Sn	7	F6.2	mg/l
Ti	13	F6.1	mg/l
W	19	F6.2	mg/l
V	25	F6.1	mg/l
Zn	31	F6.2	mg/l
Zr	37	F6.0	mg/l
Alpha	43	F6.0	p Ci/l
Beta	49	F6.0	

Record 7

Parameter	Col .	Format	Units
depth	1	F9.2	ft
fecal coliform	10	F9.2	no/100ml
MBAS	19	F9.2	mg/l
ST	28	F9.2	mg/l
total coliform	37	F9.2	no/100ml
Spg	46	F9.2	
NH3N	55	F9.2	mg/l
aquifer	64	F9.2	

Ca_md Formats

Tract: C-a
 Monitoring Activity: Retort Abandonment_Water
 Format: j26_5, j48_13
 Period Covered: 1983, 1984

Parameter	Col.	Format	Units
type	1	A4	
stat	5	A10	
date	15	3I2	
WL	21	F6.1	
mmw	27	F6.0	
tgp	33	F6.0	
temp	39	F3.1	
ph	42	F3.1	
sp_cond	45	F6.0	
NH3	51	F3.1	
F	54	F3.1	
S	57	F4.0	
K	61	F4.0	
phe	65	F4.0	
COD	69	F4.0	
FRBRD	73	F4.0	

Ca Formats

Tract: C-a

Monitoring Activity: Water Chemistry

Format: j26_3, j26_4, j26_6, j16_13, j49_1, j49_2

Period Covered: 1983, 1983, 1983, 1982, 1984, 1984

Parameter	Col.	Format	Units
date	2	3I2	mo-da-yr
station	8	A15	-
temp	23	F6.1	degrees C
ph	29	F6.1	standard units
spc_cond	35	F6.0	micro_umhos/cm
Ca	41	F6.0	mg/l
Mg	47	F6.0	mg/l
Na	53	F6.0	mg/l
K	59	F6.2	mg/l
Fe	68	F6.2	mg/l
HCO3	74	F6.2	mg/l

Record 2

Parameter	Col.	Format	Units
CO3	1	F6.2	mg/l
OH	7	F6.2	mg/l
SO4	13	F6.0	mg/l
Cl	19	F7.2	mg/l
TSS	26	F6.0	mg/l
TCN	32	F6.2	
TSO4	38	F6.2	
TDS	44	F6.0	mg/l
ALK	50	F6.0	mg/l
Hard	56	F6.0	mg/l
ORTHOP	62	F6.2	mg/l
PO4	68	F6.2	mg/l

Record 3

Parameter	Col.	Format	Units
KJEL	1	F6.1	mg/l
NH3	7	F6.2	mg/l
NO2	13	F6.3	mg/l
NO3	19	F6.3	mg/l
F	25	F6.2	mg/l
S	31	F6.1	mg/l
SO3	37	F6.0	mg/l
Br	43	F6.1	mg/l
TOC	49	F6.0	mg/l
DOC	55	F6.0	mg/l
Cn	61	F6.3	mg/l
PHENOL	67	F6.2	mg/l

Record 4

Parameter	Col.	Format	Units
OG	1	F6.0	mg/l
BOD	7	F6.0	-
COD	13	F6.0	-
Al	19	F6.1	mg/l
Sb	25	F6.2	
As	31	F6.2	mg/l
Ba	37	F6.1	mg/l
Be	43	F6.2	mg/l
Bi	49	F6.2	mg/l
B	55	F6.2	mg/l
Cd	61	F6.1	mg/l
Cr	67	F6.2	mg/l

Record 5

Parameter	Col.	Format	Units
Cu	1	F6.3	mg/l
Ga	7	F6.1	mg/l
Ge	13	F6.1	mg/l
Pb	19	F6.3	mg/l
Li	25	F6.2	mg/l
Mn	31	F6.2	mg/l
Hg	37	F6.2	mg/l
MOL	43	F6.1	mg/l
Ni	49	F6.2	mg/l
Se	55	F6.2	mg/l
Si02	61	F6.0	mg/l
Ag	67	F6.1	mg/l

Record 6

Parameter	Col.	Format	Units
Sr	1	F6.2	mg/l
Sn	7	F6.2	mg/l
Ti	13	F6.1	mg/l
W	19	F6.2	mg/l
V	25	F6.1	mg/l
Zn	31	F6.2	mg/l
Zr	37	F6.0	mg/l
Alpha	43	F6.0	p Ci/l
Beta	49	F6.0	

Record 7

Parameter	Col.	Format	Units
	1	F6.2	mg/l
	7	F6.2	mg/l
	13	F6.1	mg/l
	19	F6.2	mg/l
	25	F6.1	mg/l
	31	F6.2	mg/l
	37	F6.0	mg/l
	43	F6.0	p Ci/l
	49	F6.0	

Ca Formats

Tract: C-a
 Monitoring Activity: Water Chemistry
 Format: ch81
 Period Covered: 1980

Parameter	Col.	Format	Units
date	2	3I2	mo-da-yr
station	8	A15	-
temp	23	F6.1	degrees C
ph	29	F6.1	standard units
spc_cond	35	F6.0	micro_umhos/cm
Ca	41	F6.0	mg/l
Mg	47	F6.0	mg/l
Na	53	F6.0	mg/l
K	59	F6.2	mg/l
Fe	68	F6.2	mg/l
HCO3	74	F8.2	mg/l

Record 2

Parameter	Col.	Format	Units
CO3	1	F7.2	mg/l
OH	7	F6.2	mg/l
SO4	13	F6.0	mg/l
Cl	19	F7.2	mg/l
TSS	26	F6.0	mg/l
TCN	32	F6.2	
TSO4	38	F6.2	
TDS	44	F6.0	mg/l
ALK	50	F6.0	mg/l
Hard	56	F6.0	mg/l
ORTHOP	62	F6.2	mg/l
PO4	68	F6.2	mg/l

Record 3

Parameter	Col.	Format	Units
KJEL	1	F6.1	mg/l
NH3	7	F6.2	mg/l
NO2	13	F7.3	mg/l
NO3	19	F7.3	mg/l
F	25	F6.2	mg/l
S	31	F6.1	mg/l
SO3	37	F6.0	mg/l
Br	43	F6.1	mg/l
TOC	49	F6.0	mg/l
DOC	55	F6.0	mg/l
Cn	61	F7.3	mg/l
PHENOL	67	F6.2	mg/l

Record 4

Parameter	Col.	Format	Units
OG	1	F6.0	mg/l
BOD	7	F6.0	-
COD	13	F6.0	-
Al	19	F6.1	mg/l
Sb	25	F6.2	
As	31	F6.2	mg/l
Ba	37	F6.1	mg/l
Be	43	F6.2	mg/l
Bi	49	F6.2	mg/l
B	55	F6.2	mg/l
Cd	61	F6.1	mg/l
Cr	67	F6.2	mg/l

Record 5

Parameter	Col.	Format	Units
Cu	1	F7.3	mg/l
Ga	7	F6.1	mg/l
Ge	13	F6.1	mg/l
Pb	19	F7.3	mg/l
Li	25	F6.2	mg/l
Mn	31	F6.2	mg/l
Hg	37	F6.2	mg/l
MOL	43	F6.1	mg/l
Ni	49	F7.2	mg/l
Se	55	F6.2	mg/l
S102	61	F6.0	mg/l
Ag	67	F6.1	mg/l

Record 6

Parameter	Col.	Format	Units
Sr	1	F6.2	mg/l
Sn	7	F6.2	mg/l
Ti	13	F6.1	mg/l
W	19	F6.2	mg/l
V	25	F6.1	mg/l
Zn	31	F6.2	mg/l
Zr	37	F6.0	mg/l
Alpha	43	F6.0	p Ci/l
Beta	49	F6.0	

C-a Format

Tract: C-a
 Monitoring Activity: Hydrology USGS Water Quality
 Format: j48_9
 Period Covered: 1984

Parameters	Col.	Format	Units
Card 1			
station	1	A3	
date	8	3I2	mmddy
flow	14	F6.2	
turbo 70	20	F6.2	
turbo 76	26	F6.2	
color	32	I6	
sp_cond	38	I6	
DO	44	I6	
BOD	50	I6	
COD	56	I6	
PH	60	I6	
CO2	68	I6	
Alk	74	I6	
Card 2			
HCO3	1	I6	
CO3	7	I6	
Oil 550	13	I6	
Oil 556	19	I6	
N_TOT	25	I6	
N_DIS	31	I6	
Torg N	37	I6	
Org N	43	I6	
NH3N	49	I6	
TNH3 N	55	I6	
NO2 DIS	61	I6	
NO3 DIS	67	I6	
KJeL623	73	I6	
CC2	80	I1	
Card 3			
KJeL625	1	I6	
TNO2NO3	7	I6	
NO2NO3	13	I6	
TPO4	19	I6	
O PO4	25	I6	
TOT P	31	I6	
DIS P	37	I6	
DORTHOP	43	I6	
TOC	49	I6	

Card 3 cont.

DOC	55	I6
SUSP_OC	61	I6
Cyanide	67	I6
THS	73	I6
CC3	80	I1

Card 4

HS	1	I6
T_Hard	7	I6
NC_Hard	13	I6
Ca	19	I6
Mg	25	I6
Na	31	I6
SAR	37	I6
Per_Na	43	I6
Na_K	49	I6
K	55	I6
CL	61	I6
SO4	67	I6
F	73	I6
CC4	80	I1

Card 5

SI02	1	I6
AS	7	I6
BA	13	I6
BE	19	I6
BI	25	I6
B	31	I6
CD	37	I6
CR	43	I6
CU	49	I6
FE	55	I6
PB	61	I6
MN	67	I6
MOL	73	I6
CC5	80	I1

Card 6

NI	1	I6
AG	7	I6
V	13	I6
ZN	19	I6
SN	25	I6
AL	31	I6
GA	37	I6
GE	43	I6
LI	49	I6
SE	55	I6
TI	61	I6

Card 6 cont.

ZR	67	I6
ODOR	73	I6
CC6	8D	I1

Card 7

T_Col I	1	I6
F_Col I	7	I6
PhenoL	13	I6
PCB	19	I6
TDS	25	I6
TDS2	31	I6
TDS3	37	I6
NH3	43	I6
NO3	49	I6
NO2	55	I6
BR	61	I6
HG	67	I6
SR	73	I6
CC7	80	I1

C-a Format

Tract: C-a
 Monitoring Activity: Hydrology USGS Water Chemistry
 Format: j48_8
 Period Covered: 1984

Parameters	Col.	Format	Units
station	1	A3	
date	8	3I2	mmddy
Qm	14	F6.2	
Thi	20	F6.1	
Tlow	26	F6.1	
Tm	32	F6.1	
Chi	38	F6.1	
Clow	44	F6.1	
Cm	50	F6.1	
SSM	56	F6.2	
SLM	62	F6.2	

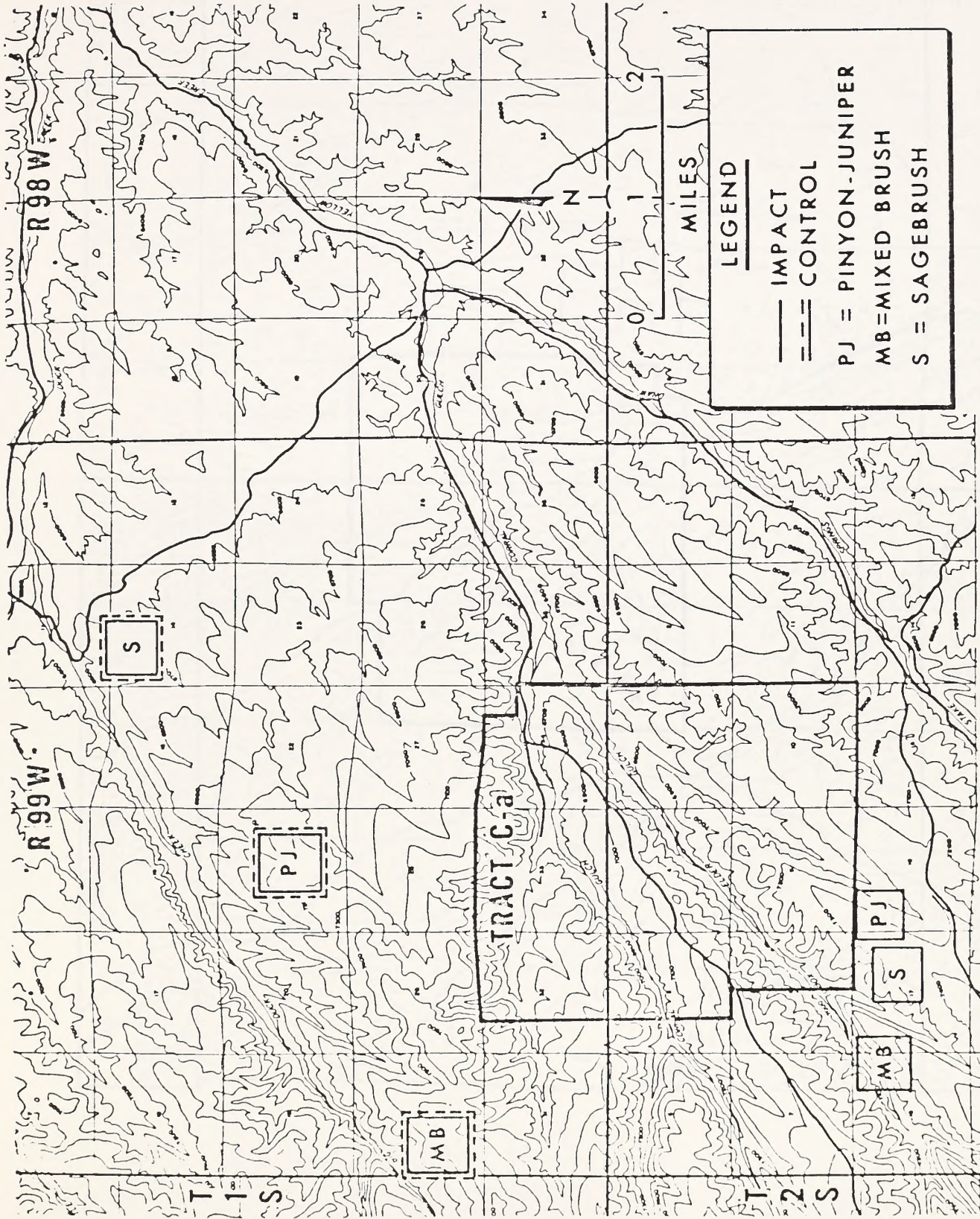


Figure 8-4-3

LOCATION OF THE VEGETATION MONITORING SITES

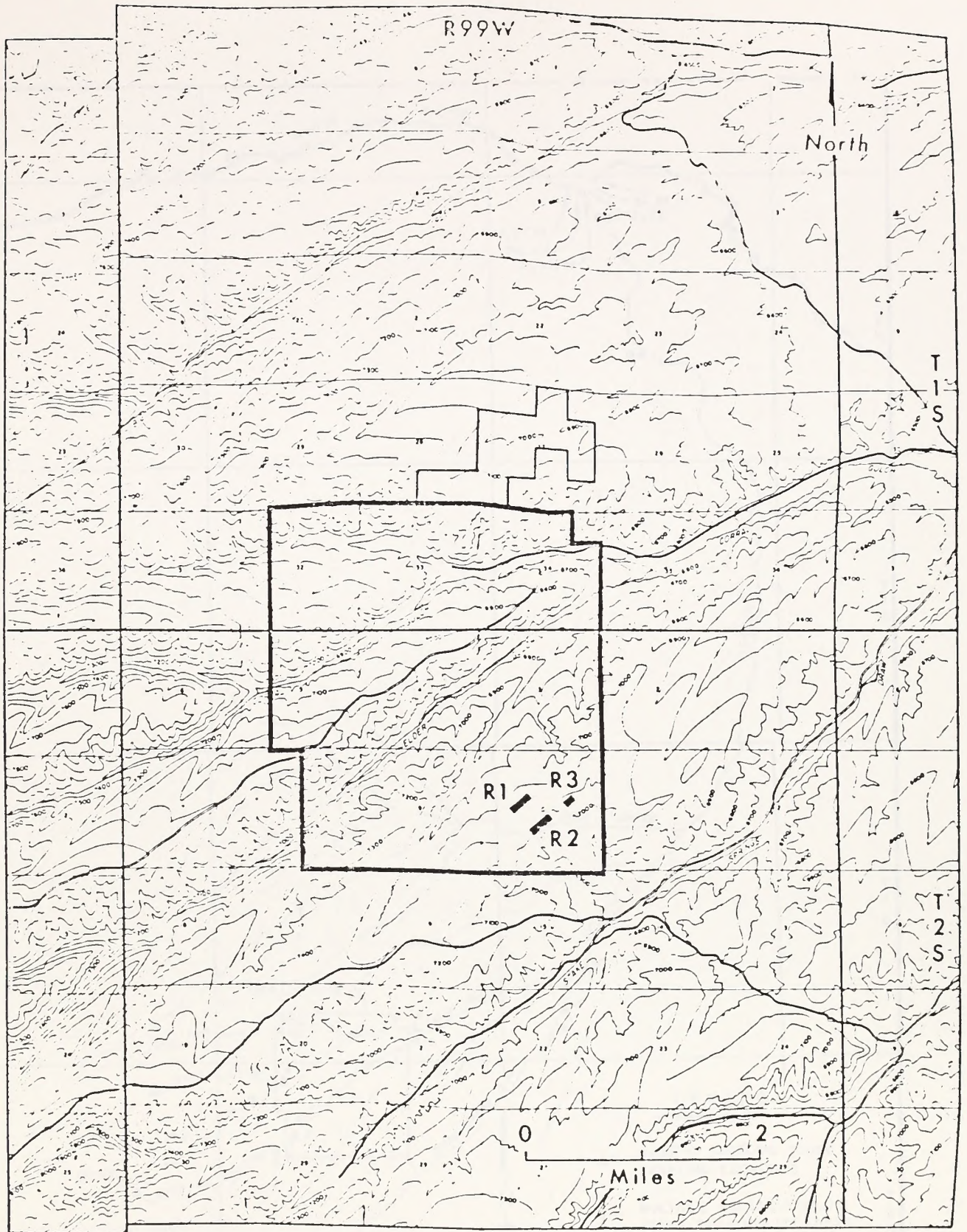


Figure 7.1
Experimental Revegetation Plots

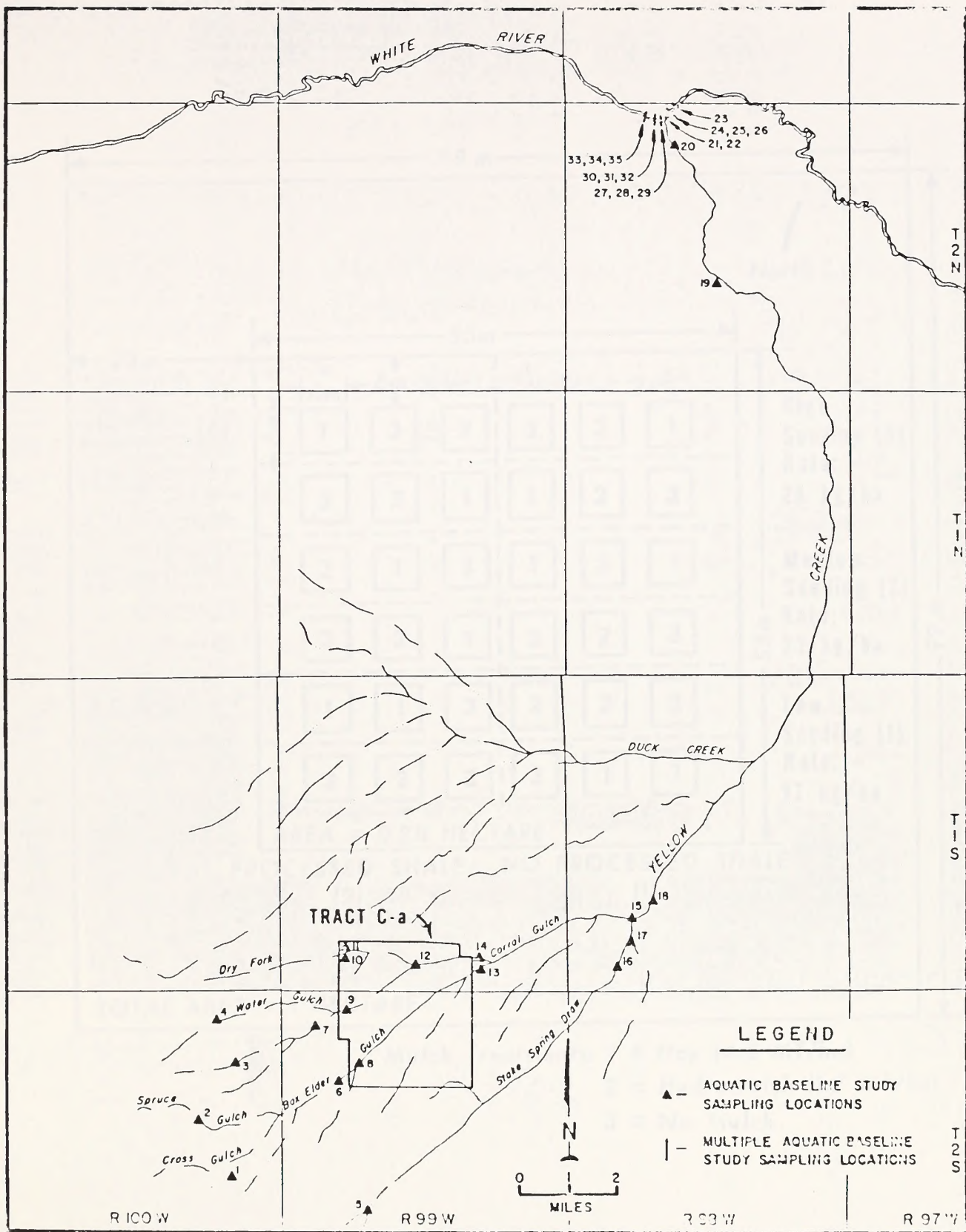
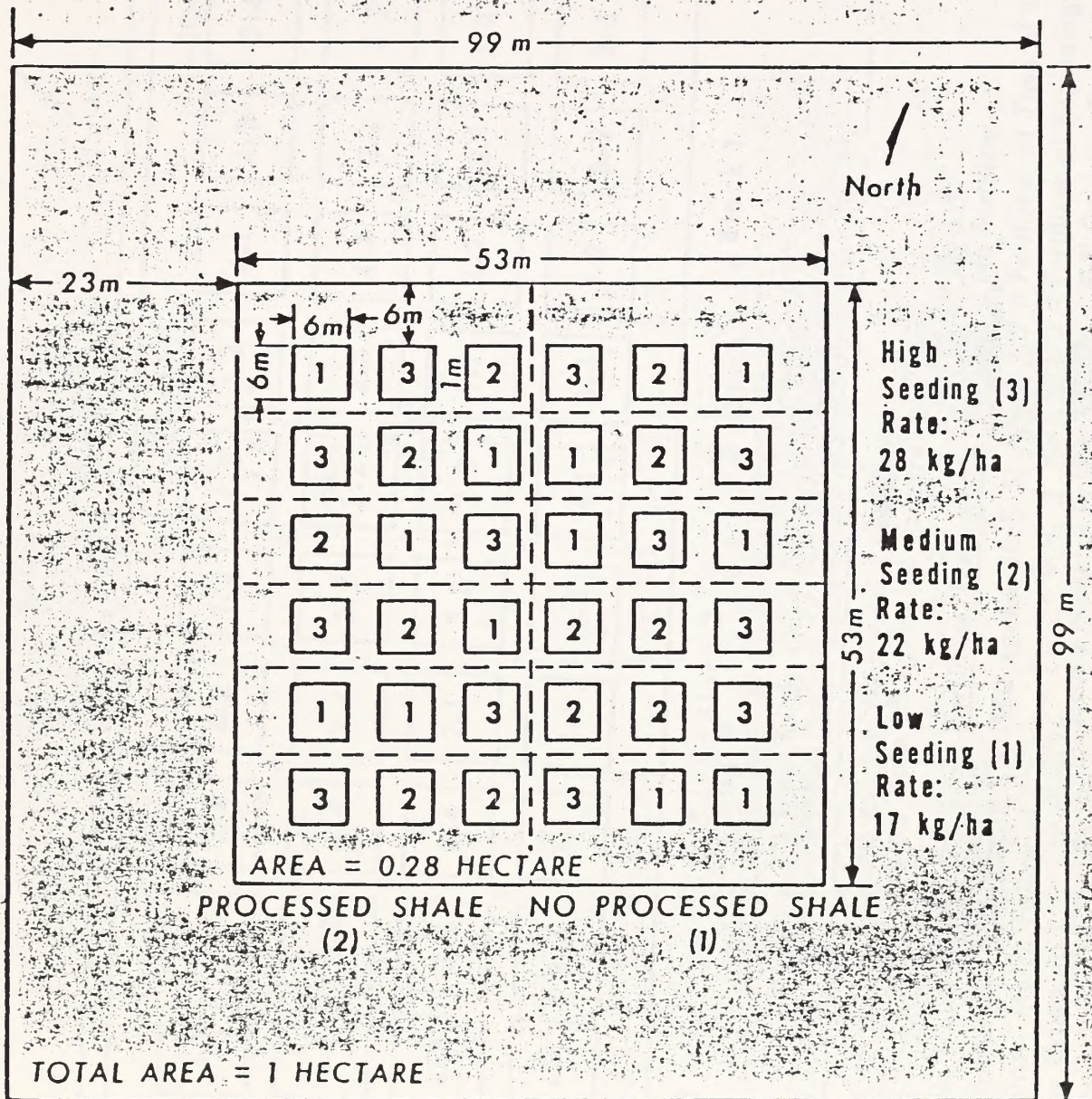
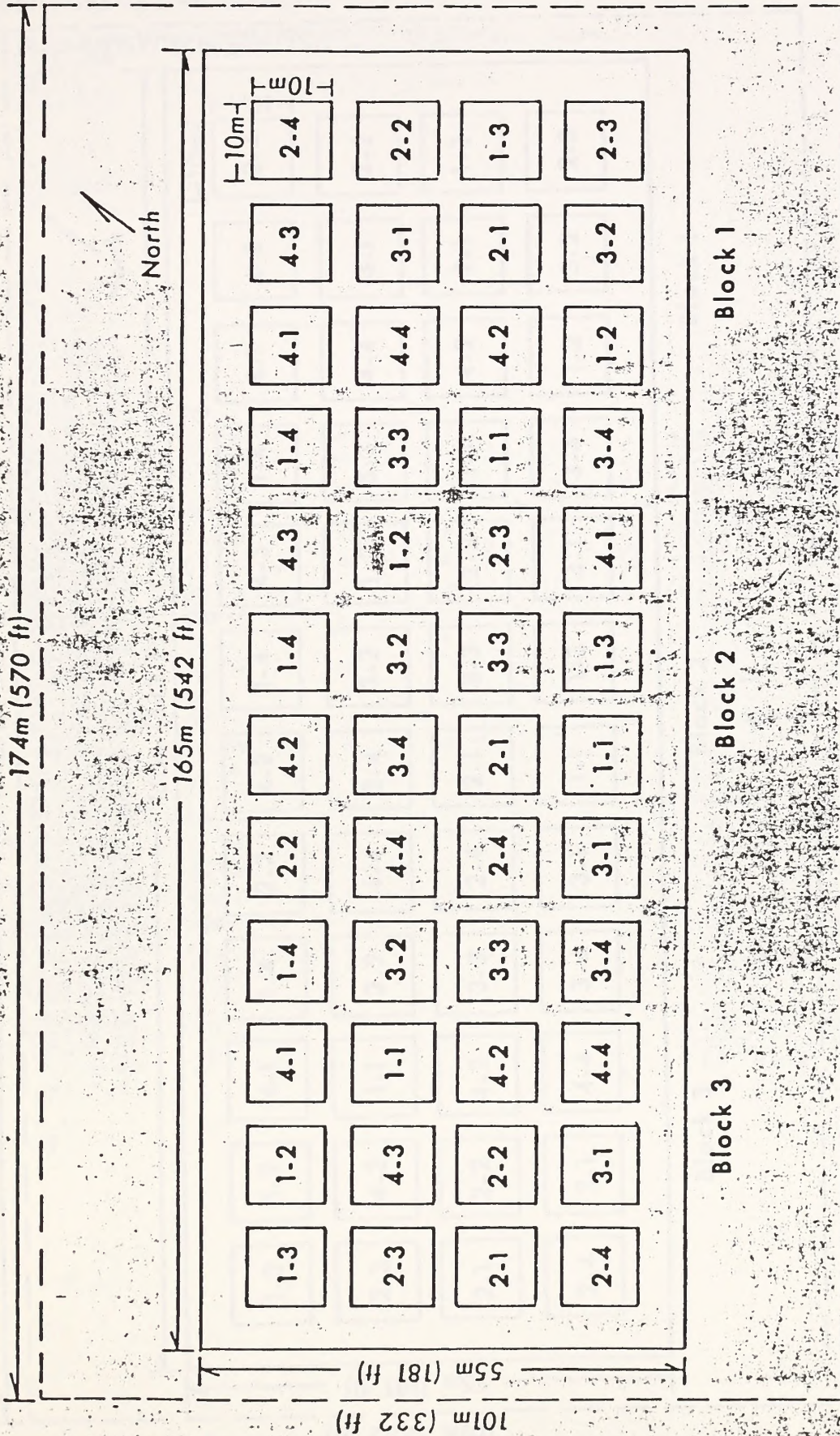


Figure 8-5-1
 RBOSP AQUATIC SAMPLING LOCATIONS



Mulch Treatments: 1 = Hay (4.5 MT/ha)
 2 = Hydromulch (1.7 MT/ha)
 3 = No Mulch

Figure 6-3. Configuration of Experimental Revegetation Plot over 'Tosco II' Processed Shale



Seeding Rate 18 kg/ha (16 lb/acre)

Mulch Treatments:

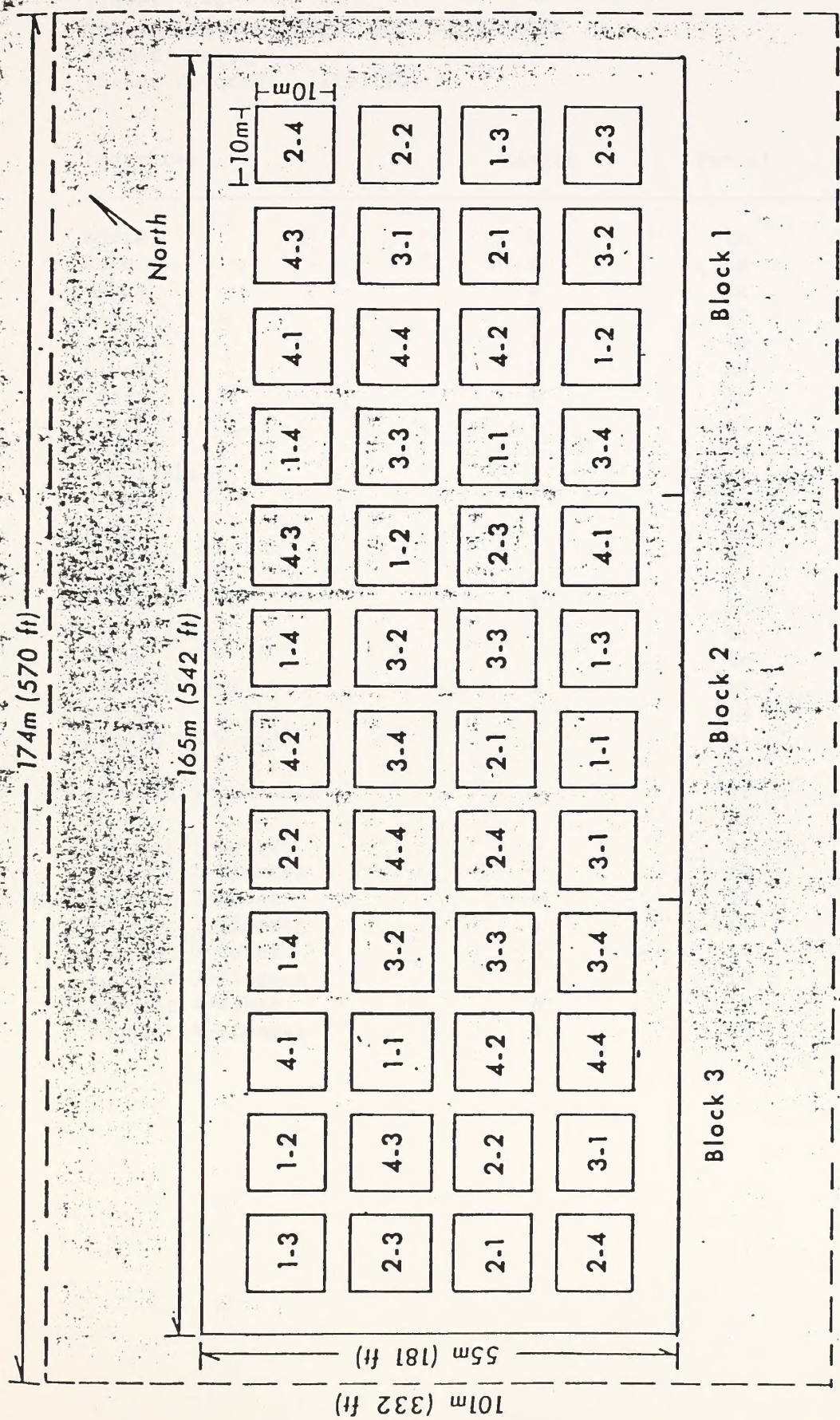
- 1 = No Mulch
- 2 = Hydromulch
- 3 = Straw Mulch Followed by Crimping
- 4 = Straw Mulch With Netting

Fertilizer Treatments:

- 1 = No Fertilizer
- 2 = Fertilizer at Time of Sowing
- 3 = Fertilizer at Beginning of First Full Growing Season
- 4 = Fertilizer at Sowing & Beginning of First Full Growing Season

Figure 6-2. Treatment Configuration for Experimental Revegetation Plot R2, Tract C-a.

Ca 1981



Seeding Rate 18 kg/ha (16 lb/acre)

- Mulch Treatments:**
- 1 = No Mulch
 - 2 = Hydromulch
 - 3 = Straw Mulch Followed by Crimping
 - 4 = Straw Mulch With Netting
- Fertilizer Treatments:**
- 1 = No Fertilizer
 - 2 = Fertilizer at Time of Sowing (180 kg/ha, 10-5-5)
 - 3 = Fertilizer at Beginning of First Full Growing Season
 - 4 = Fertilizer at Sowing & Beginning of First Full Growing Season
- (Second Numeral in Treatment Designation)**

Figure 6-1. Treatment Configuration for Experimental Revegetation Plot R2, Tract C-a.

Tract: C-a
 Monitoring Activity: SPECIAL STUDIES
 Format: rvg81
 Period Covered: July 1981

Parameter	Length	Format	Units
space	1	lx	na
date	6	a6	mmddy
space	1	lx	na
site	2	a2	-
space	1	lx	na
block	2	a2	-
space	1	lx	-
plot	2	a2	-
space	1	lx	na
substrate	1	il	-
space	1	lx	na
seed	1	il	-
space	1	lx	na
mulch	1	il	-
space	1	lx	na
fertilizer	1	il	-
space	1	lx	na
species.code	6	a6	-
space	1	lx	na
growth.form.code	1	a1	-
space	1	lx	na
planted.or.invaded	1	a1	-
space	1	lx	na
subplot 1-Cover	4	i4	
subplot 1-Biomass	4	i4	
subplot 2-Cover	4	i4	
subplot 2-Biomass	4	i4	
subplot 3-Cover	4	i4	
subplot 3-Biomass	4	i4	
subplot 4-Cover	4	i4	
subplot 4-Biomass	4	i4	

Ca_md Formats

Tract: C-a
 Monitoring Activity: SPECIAL STUDIES
 Format: g7678
 Period Covered: 06/09/76 - 09/08/78

Parameter	Length	Format	Units
space	1	1x	na
date	6	a6	mmddy
space	7	7x	na
site	2	a2	region/location
space	2	2x	na
subplot	3	i3	-
space	2	2x	na
substrate.code	2	i2	-
space	6	6x	na
mulche.code	2	i2	-
space	2	2x	na
species	7	a7	-
space	2	2x	na
data.type	2	a2	-
space	2	2x	na
biomass	8	f8.2	-
space	2	2x	na
fertilizer	1	i1	-
space	2	2x	na
e	1	a1	?

Ca_md Formats

Tract: C-a
 Monitoring Activity: SPECIAL STUDIES
 Format: rvg79
 Period Covered: 8/02/79

Parameter	Length	Format	Units
space	1	1x	na
date	6	a6	mmddy
space	2	2x	na
site	2	a2	-
space	2	2x	na
plot	3	i3	-
space	2	2x	na
subplot	3	i3	-
space	2	2x	na
substrate.code	2	i2	-
space	2	?x	na
seeding.rate.code	2	i2	-
space	2	2x	na
mulch.code	2	i2	-
space	2	2x	na
species	7	a7	-
space	2	2x	na
life.form.code	2	a2	-
space	2	2x	na
invasion.code	2	a2	-
space	2	2x	na
biomass	8	f8.2	-
space	2	2x	na
cover	8	f8.2	-

Ca_md Formats

Tract: C-a
 Monitoring Activity: SPECIAL STUDIES
 Format: rvg180, rvg280, rvg380
 Period Covered: 8/12/80-8/15/80
 8/07/80-8/12/80
 8/05/80-8/06/80

Parameter	Length	Format	Units
space	1	lx	na
date	6	a6	mmddy
space	1	lx	na
site	2	a2	-
space	1	lx	na
block	2	a2	-
space	1	lx	na
plot	2	a2	na
space	1	lx	na
species	7	a7	-
space	1	lx	na
growth.form	1	a1	-
space	1	lx	na
planted.or.invaded	1	a1	-
space	1	lx	na
cover.estimate.subplot.1	3	i3	-
space	1	lx	na
cover.estimate.subplot.2	3	i3	-
space	1	lx	na
cover.estimate.subplot.3	3	i3	-
space	1	lx	na
cover.estimate.subplot.4	3	i3	-

Invaded = I, planted is a blank column.

Ca_md Formats

Tract: C-a
 Monitoring Activity: SPECIAL STUDIES
 Format: rvg379
 Period Covered: 8/27/79-9/08/79

Parameter	Length	Format	Units
space	1	lx	na
date	6	a6	mmddy
space	1	lx	na
site	2	a2	-
space	1	lx	na
plot	3	a3	-
space	1	lx	na
subplot.sampled	3	a3	-
space	1	lx	na
substrate.code	4	a4	-
space	1	lx	na
seeding.rate.code	2	a2	-
space	1	lx	na
mulch.rate.code	2	a2	-
space	1	lx	na
species.code	7	a7	-
space	1	lx	na
growth.form.code	2	a2	-
space	1	lx	na
planted.or.invaded	2	a2	-
space	1	lx	na
biomass	8	f8.2	-
cover	8	f8.2	-

Invaded = I; planted or blank.

Note: If the species appears but has 0 for both biomass and cover, then it was detected in quantities too small to measure (p or t).

Ca_md Formats

Tract: C-a
 Monitoring Activity: SPECIAL STUDIES - SHRUBS
 Format: shd381
 Period Covered: October 1981

Parameter	Length	Format	Unit
space	1	lx	na
site	2	a2	-
space	1	lx	na
plot	2	a2	-
space	1	lx	na
substrate	1	i1	-
space	1	lx	na
seed	1	i1	-
space	1	lx	na
mulch	1	i1	-
space	1	lx	na
date	6	a6	mmddy
space	1	lx	na
block	2	a2	-
space	1	lx	na
species.code	6	a6	-
space	1	lx	na
growth.form	1	a1	-
space	1	lx	na
age.class	2	i2	-
space	1	lx	na
plant.height	3	i3	-
space	1	lx	na
plant.diameter	3	i3	-

Ca_md Formats

Tract: C-a
 Monitoring Activity: SPECIAL STUDIES
 Format: rclm81
 Period Covered: 8/24/81

Parameter	Length	Format	Units
space	1	lx	na
transect	6	a6	-
space	1	lx	na
date	6	a6	mmddy
space	1	lx	na
species.code	6	a6	-
space	1	lx	na
growth.foirm	1	al	-
space	1	lx	na
invaded	1	al	-
space	1	lx	na
cover.biomass	1	al	-
space	1	lx	na
seed.mixture	1	al	-
space	1	lx	na
subplots (1-10)	40	10i4	-
space	1	lx	na
date.seeded	6	a6	mmddy

Ca_md Formats

Tract: C-a
 Monitoring Activity: TERRESTRIAL
 Format: vg8081
 Period Covered: 80-81

Parameter	Length	Format	Units
space	1	lx	na
habitat	2	a2	-
space	1	lx	na
transect		i2	-
space	1	lx	na
plot		i2	-
space	1	lx	na
seed		il	-
space	1	lx	na
chop		il	-
space	1	lx	na
fertilizer		il	-
space	1	lx	na
orientation		il	-
space	1	lx	na
date		a6	-
space	1	lx	na
species code		a6	-
space	1	lx	na
growth.form		a1	-
space	1	lx	na
invaded	1	a1	-
space	1	lx	na
parameter	1	a1	-
space	1	lx	na
cover.density	4	i4	-

C-a Formats

Tract: C-a

Monitoring Activity: Vegetation - Cover R1 - R2

Format: j26_10, j26_11

Period Covered: 1976 - 1983, 1976 - 1983

Parameter	Col.	Format	Units
site	2	I1	
block	4	I1	
pest	5	I2	
mulch	9	I1	(ignore just.)
fertilizer	10	I1	
date	11	3A2	mo-da-yr
species	20	A6	
gr. form	26	A1	
sps. form	27	A1	
cover 1	28	I3	%
cover 2	34	I3	%
cover 3	40	I3	%
cover 4	46	I3	%

fert

- 1 = none
- 2 = at sowing
- 3 = first season
- 4 = both

mulch

- 1 = none
- 2 = hydro
- 3 = straw & crimping
- 4 = straw & netting

replaces jkc016.21 and jkc016.23

C-a Formats

Tract: C-a
 Monitoring Activity: Vegetation - Cover - R3
 Format: j26_12
 Period Covered: 1976 - 1983

Parameters	Col.	Format	Units
plot	5	I2	
substrate	7	I1	
seeding	8	I1	
mulch	9	I1	
date	11	3A2	mo-da-yr
species	20	A6	
gr_form	26	A1	
sps_type	27	A1	
cover 1	28	I3	%
cover 2	34	I3	%
cover 3	40	I3	%

plot = 1 to 36

replaces jkc016.25

seed	1	low	(17kg/HA)	
	2	med	(22kg/HA)	
	3	high	(28kg/HA)	
substrate	1	no process shale		
	2	processed shale		
mulch	1	hay	(4.5mT/HA)	
	2	hydromulch	(1.7mT/HA)	
	3	none		
sps_type	I	= invaded		
	X	= planted		
gr_form	F	= forb	R	= rocks
	G	= grass	L	= Lichen
	S	= shrub	D	= either
	T	= tree	M	= moss
	B	= bare soil		

C-a Formats

Tract: C-a

Monitoring Activity: Revegetation R3, Soil Moisture

Format: j26_13

Period Covered:

Parameter	Col.	Format	Units
site	1	A2	
plot	5	I2	
substrate	7	I1	
seed	8	I1	
mulch	9	I1	
date	11	3A2	mo-da-yr
top	20	F5.1	%
mid	25	F5.1	%
bottom	30	F5.1	%

C-a Format

Tract: C-a

Monitoring Activity: Revegetation Bench test, Soil Moisture

Format: j26_14

Period Covered:

Parameters	Col.	Format	Units
date	1	3A2	mo-da-yr
fence	7	I1	
soil	8	I1	
slope	9	I1	
row	10	A1	
num	11	I1	
top	15	F5.1	%
mid	20	F5.1	%
bottom	25	F5.1	%
obs month	30	I2	
rptype	35	I4	

C-a Formats

Tract: C-a

Monitoring Activity: Revegetation Bench Test - Plant Height - Diameter

Format: j26_15

Period Covered:

Parameter	Col.	Format	Units
date	1	3A2	mo-da-yr
fence	7	I1	
soil	8	I1	
slope	9	I1	
row	10	A1	
plot_no.	11	I2	
species	13	A6	
gr_form	19	A1	
status	20	A1	
ph	21	I4	cm
pd	25	I5	cm

C-a Formats

Tract: C-a

Monitoring Activity: Vegetation - Yellow Creek Burn Recovery - Cover

Format: j26_16

Period Covered:

Parameter	Col.	Format	Units
block	1	I2	
plot	3	A3	
fence	6	I1	
seed	7	I1	
cage	8	I1	
date	9	3A2	mo-da-yr
species	18	A6	
gr_from	24	A1	
sps_type	25	A1	
cover	26	I4	%

Ca_md Formats

Tract: C-a

Monitoring Activity: R3 Conductivity Data

Format: j16.28

Period Covered:

Parameters	Col.	Format	Units
Season 1	A4		
report year year	5	I4	
replicate 10	I1		
0 cm depth conductivity	15	I2	
25 cm depth conductivity	20	I2	
50 cm depth conductivity	25	I2	

Ca_md Formats

Tract: C-a

Monitoring Activity: Special Studies - Reclamation Success

Format: j16.31

Period Covered: 1982

Parameters	Col.	Format	Units
transect	1	I6	
date	7	3I2	mo-da-yr
observer	13	A3	
species	16	A6	
gr-form	22	A1	
invaded	23	A1	
cover/biomass	24	A1	C or B
seed mixture	25	I1	
subplot 1	26	I3	
subplot 2	29	I3	
subplot 3	32	I3	
subplot 4	35	I3	
subplot 5	38	I3	
subplot 6	41	I3	
subplot 7	44	I3	
subplot 8	47	I3	
subplot 9	50	I3	
subplot 10	53	I3	
date seeded	56	3I2	
type	62	A1	

Ca_md Formats

Tract: C-a
 Monitoring Activity: Revegetation Biomass Site R2
 Format: j16.26
 Period Covered: 1979 - 1982

Parameters	Col.	Format	Units
plot	1	I2	
substrate	5	I1	
seeding	10	I1	
mulch	15	I1	
date	20	3I2	mo-da-yr
species	30	A6	
gr_form	38	A1	
spc_time	39	A1	
BMO1	45	F5.1	
BMO2	50	F5.1	
BMO3	55	F5.1	

Ca_md Formats

Tract: C-a
 Monitoring Activity: Range Productivity
 Format: j16.20
 Period Covered: 1978 - 1982

Parameters	Col.	Format	Units
veg_type	1	A2	
transect	3	I2	
date	5	3I2	mo-da-yr
species	14	A6	
gr_form	20	A1	
plot	21	I2	
exclo	23	A1	
dry_lot	25	F6.1	
Kg_Ha	31	F6.1	
lbs_A	37	F6.1	

Ca_md Format

Tract: C-a
 Monitoring Activity: Special Studies Habitat Mod
 Format: j16.30
 Period Covered: 1982

Parameter	Col.	Format	Units
veg-type	1	A2	
transect	3	I2	
plot no.	5	I2	
seed rate	7	I1	
chopped/not chopped	8	I1	
fertilizer	9	I1	
orientation	10	I1	
date	11	3I2	mo-da-yr
observer	17	A3	
species	20	A6	
growth form	26	A1	
species type	27	A1	
parameter measured	28	A1	C or D
cover/density	29	I4	

C-a Format

Tract: C-a
 Monitoring Activity: R-1,2 Cover Reveg.
 Format: j48_15, j48_12
 Period Covered: 1984, 1984

Parameters	Col.	Format	Units
site	2	I1	
block	4	I1	
plot	5	I2	
mulch	9	I1	
fertilizer	10	I1	
date	11	3I2	mo-da-yr
species	20	A6	
Gr-firm	26	A1	
sps-type	27	A1	
cover 1	28	I3	
cover 2	34	I3	
cover 3	40	I3	
cover 4	46	I3	

C-a Format

Tract: C-a
 Monitoring Activity: R-3 Cover Reveg.
 Format: j48_11
 Period Covered: 1984

Parameters	Col.	Format	Units
plot	5	I2	
substrate	7	I1	
seeding	8	I1	
mulch	9	I1	
date	11	3I2	mo-da-yr
species	20	A6	
gr_firm	26	A1	
sps_type	27	A1	
cover 1	28	I3	
cover 2	34	I3	
cover 3	40	I3	

C-a Format

Tract: C-a

Monitoring Activity: R-3 Soil Moisture

Format: j48_10

Period Covered: 1984

Parameters	Col.	Format	Units
site	1	A2	
plot	4	I2	
subs	7	I1	
seed	8	I1	
mulch	9	I1	
date	11	3I2	mo-da-yr
top	20	F5.1	
mid	25	F5.1	
bot	30	F5.1	

C-a Format

Tract: C-a

Monitoring Activity: Bench Test - Plant Height and Diameter

Format: j48_7

Period Covered: 1984

Parameters	Col.	Format	Units
date	1	3I2	mmddy
fence	7	I1	
soil	8	I1	
slope	9	I1	
row	10	A1	
plot No.	11	I2	
species	13	A6	
gr_firm	19	A1	
status	20	A1	
ph - plant height	21	I1	
pd - plant diameter	25	I5	

C-a Format

Tract: C-a

Monitoring Activity: Branch Test - Soil Moisture

Format: j48_5

Period Covered: 1984

Parameters	Col.	Format	Units
date	1	3I2	mmddy
fence	7	I1	
soil	8	I1	
slope	9	I1	
row	10	A1	
num	11	I2	
top	16	F5.1	
mid	21	F5.1	
bottom	26	F5.1	

C-a Formats

Tract: C-a
 Monitoring Activity: Revegetation
 Format: Rvg80
 Period Covered: 1980

Parameter	Col.	Format	Units
date	2	A6	mo-da-yr
site	9	A2	
block	12	A2	
PLT	15	A2	
SPEC	18	A7	
growth form	26	A1	
planted or invaded	28	A1	P or I
subplot 1 cover estimated	30	I3	
subplot 2 cover estimated	34	I3	
subplot 3 cover estimated	38	I3	
subplot 4 cover estimated	42	I3	

